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TCACGCAACG ACTGCAACTC AAAAAACTGT GGATGGTCCA TCAGCTAAAG ACTGGCGCGG 1830120

C 1830121

What Is Claimed Is:

1. Computer readable medium having recorded thereon the nucleotide sequence depicted in SEQ ID NO:1, a representative fragment thereof or a nucleotide sequence at least 99.9% identical to the nucleotide sequence depicted in SEQ ID NO:1.

2. Computer readable medium having recorded thereon any one of the fragments of SEQ ID NO:1 depicted in Table 1a or a degenerate variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

3. The computer readable medium of claim 1, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.

4. The computer readable medium of claim 3, wherein said medium is selected from the group consisting of a floppy disc, a hard disc, random access memory (RAM), read only memory (ROM), and CD-ROM.

5. A computer-based system for identifying fragments of the *Haemophilus* genome of commercial importance comprising the following elements;

a) a data storage means comprising the nucleotide sequence of SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1;

b) search means for comparing a target sequence to the nucleotide sequence of the data storage means of step (a) to identify homologous sequence(s), and

c) retrieval means for obtaining said homologous sequence(s) of step (b).

6. A method for identifying commercially important nucleic acid fragments of the *Haemophilus* genome comprising the step of comparing a database comprising the nucleotide sequence depicted in SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence is not randomly selected.

7. A method for identifying an expression modulating fragment of *Haemophilus* genome comprising the step of comparing a database comprising the nucleotide sequence depicted in SEQ ID NO:1, a representative fragment thereof, or a nucleotide sequence at least 99.9% identical to the nucleotide sequence of SEQ ID NO:1 with a target sequence to obtain a nucleic acid molecule comprised of a complementary nucleotide sequence to said target sequence, wherein said target sequence comprises sequences known to regulate gene expression.

8. An isolated protein-encoding nucleic acid fragment of the *Haemophilus influenzae* Rd genome, wherein said fragment consists of the nucleotide sequence of any one of the fragments of SEQ ID NO:1 depicted in Table 1a or a degenerate variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

9. A vector comprising any one of the fragments of the *Haemophilus influenzae* Rd genome depicted in Table 1a or a degenerate variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

10. An isolated fragment of the *Haemophilus influenzae* Rd genome, wherein said fragment modulates the expression of an operably linked

open reading frame, wherein said fragment consists of the nucleotide sequence from about 10 to 200 bases in length which is 5′ to any one of the open reading frames depicted in Table 1a or a degenerate variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

11. A vector comprising any one of the fragments of the *Haemophilus influenzae* Rd genome of claim 8.

12. An organism which has been altered to contain any one of the fragments of the *Haemophilus* genome of claim 8.

13. An organism which has been altered to contain any one of the fragments of the *Haemophilus* genome of claim 10.

14. A method for regulating the expression of a nucleic acid molecule comprising the step of covalently attaching 5′ to said nucleic acid molecule a nucleic acid molecule consisting of the nucleotide sequence from about 10 to 100 bases 5′ to any one of the fragments of the *Haemophilus* genome depicted in Table 1a or a degenerate variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

15. An isolated nucleic acid molecule encoding a homolog of any one of the fragment of the *Haemophilus* genome depicted in Table 1a, excluding the fragments of SEQ ID NO:1 depicted in Table 1b wherein said nucleic acid molecule is produced by the steps of:

a) screening a genomic DNA library using any one of the fragments of the *Haemophilus* genome depicted in Table 1a as a target sequence;

b) identifying members of said library which contain sequences which hybridize to said target sequence;

c) isolating the nucleic acid molecules from said members identified in step (b).

16. An isolated DNA molecule encoding a homolog of any one of the fragments of the *Haemophilus* genome depicted in Table 1a, excluding the fragments of SEQ ID NO:1 depicted in Table 1b wherein said nucleic acid molecule is produced by the steps of:

a) isolating mRNA, DNA, or cDNA produced from an organism;

b) amplifying nucleic acid molecules whose nucleotide sequence is homologous to amplification primers derived from said fragment of said *Haemophilus* genome to prime said amplification;

c) isolating said amplified sequences produced in step (b).

17. An isolated polypeptide encoded by any one of the fragments of the *Haemophilus influenzae* Rd genome depicted in Table 1a or by a degenerate variant of said fragment, excluding the fragments of SEQ ID NO:1 depicted in Table 1b.

18. An isolated polynucleotide molecule encoding any one of the polypeptides of claim 17.

19. An antibody which selectively binds to any one of the polypeptides of claim 17.

20. A method for producing a polypeptide in a host cell comprising the steps of:

a) incubating a host containing a heterologous nucleic acid molecule whose nucleotide sequence consists of any one of the fragments of the *Haemophilus influenzae* Rd genome depicted in Table 1a or a degenerate

variant thereof, excluding the fragments of SEQ ID NO:1 depicted in Table 1b under conditions where said heterologous nucleic acid molecule is expressed to produce said protein, and

b) isolating said protein.

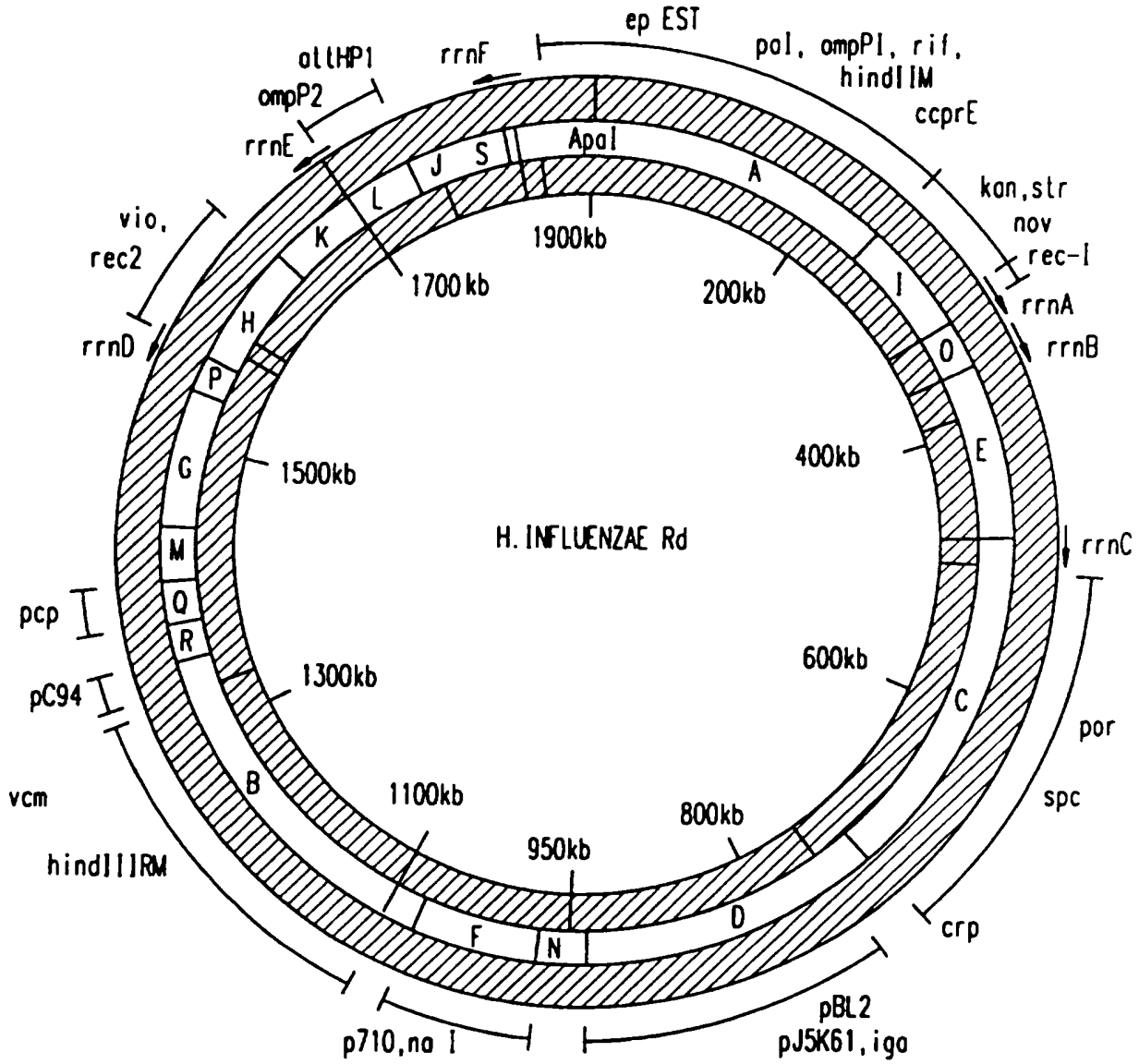

ep EST
pal, ompPI, rif,
hindIIM
ccprE
kan,str
nov
rec-I
rrnA
rrnB
rrnC
por
spc
crp
pBL2
pJ5K61, igo
p710, na I
hindIIIRM
vcm
pC94
pcp
vio,
rec2
rrnD
allHP1
ompP2
rrnE
rrnF
ApaI
H. INFLUENZAE Rd
200kb
400kb
600kb
800kb
950kb
1100kb
1300kb
1500kb
1700kb
1900kb
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S

FIG.1

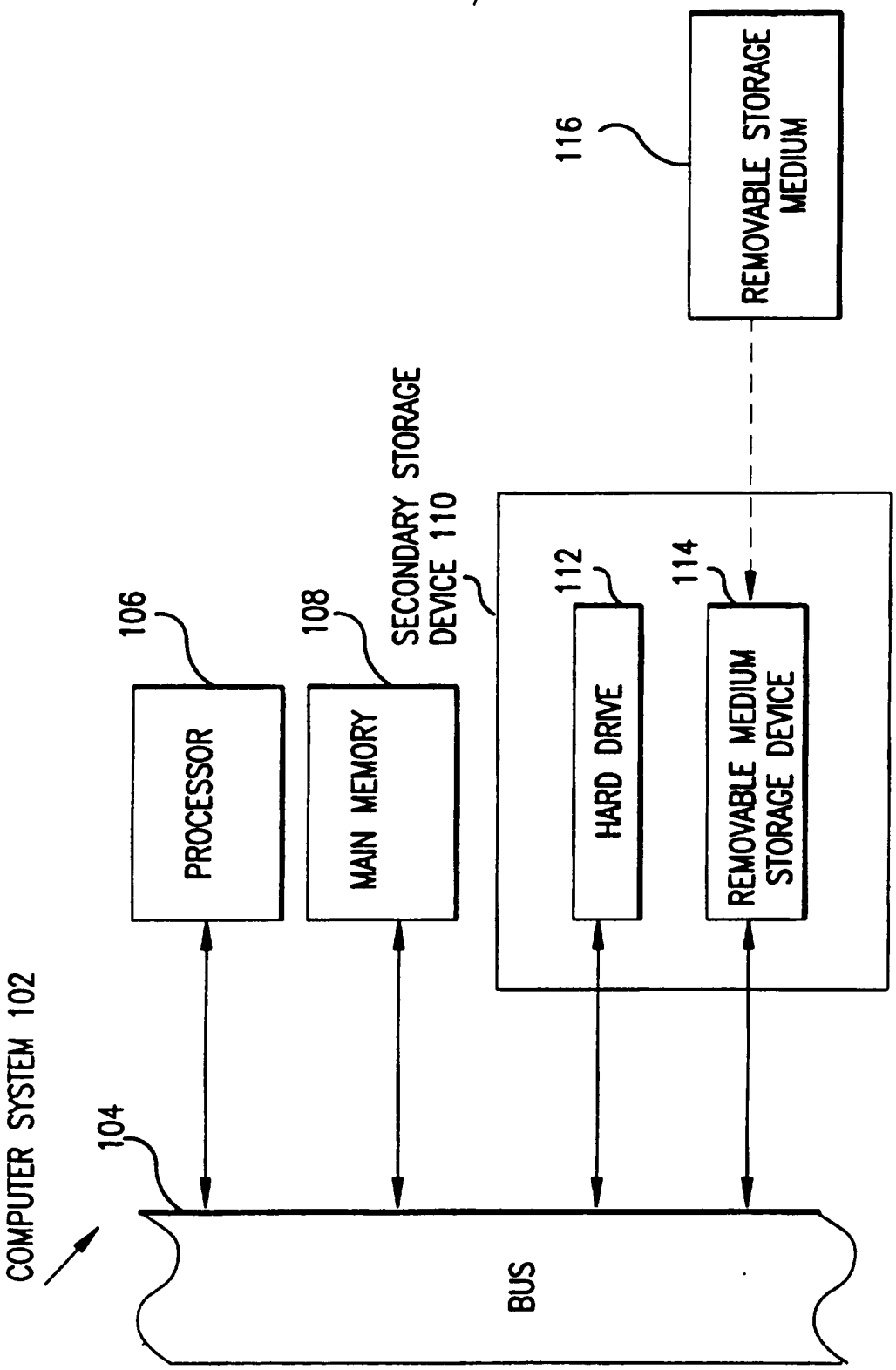

COMPUTER SYSTEM 102
104
BUS
PROCESSOR
106
MAIN MEMORY
108
SECONDARY STORAGE DEVICE 110
HARD DRIVE
112
REMOVABLE MEDIUM STORAGE DEVICE
114
REMOVABLE STORAGE MEDIUM
116

FIG.2

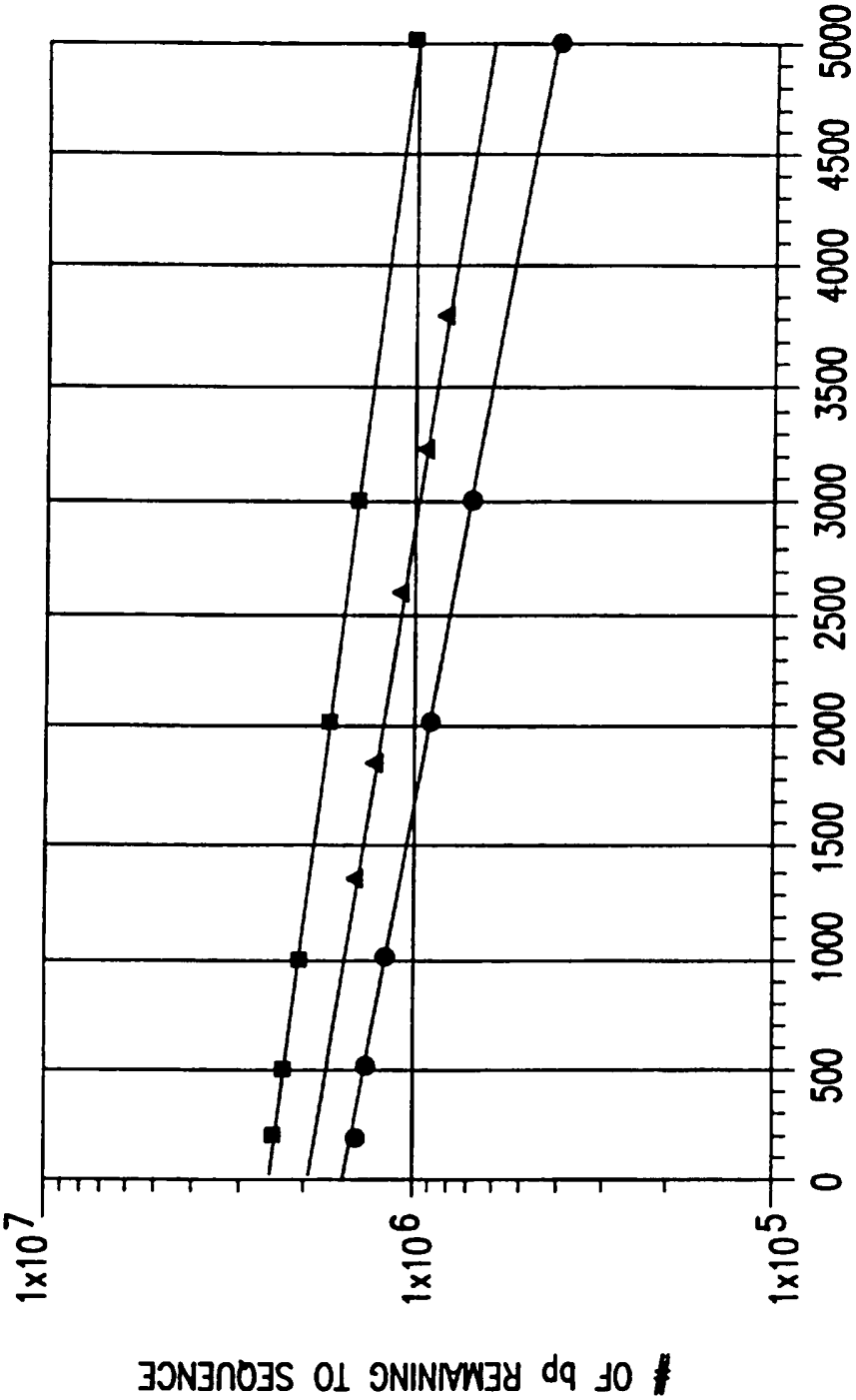

OF bp REMAINING TO SEQUENCE
1x10^7
1x10^6
1x10^5
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
OF SEQUENCE FRAGMENTS

FIG.3

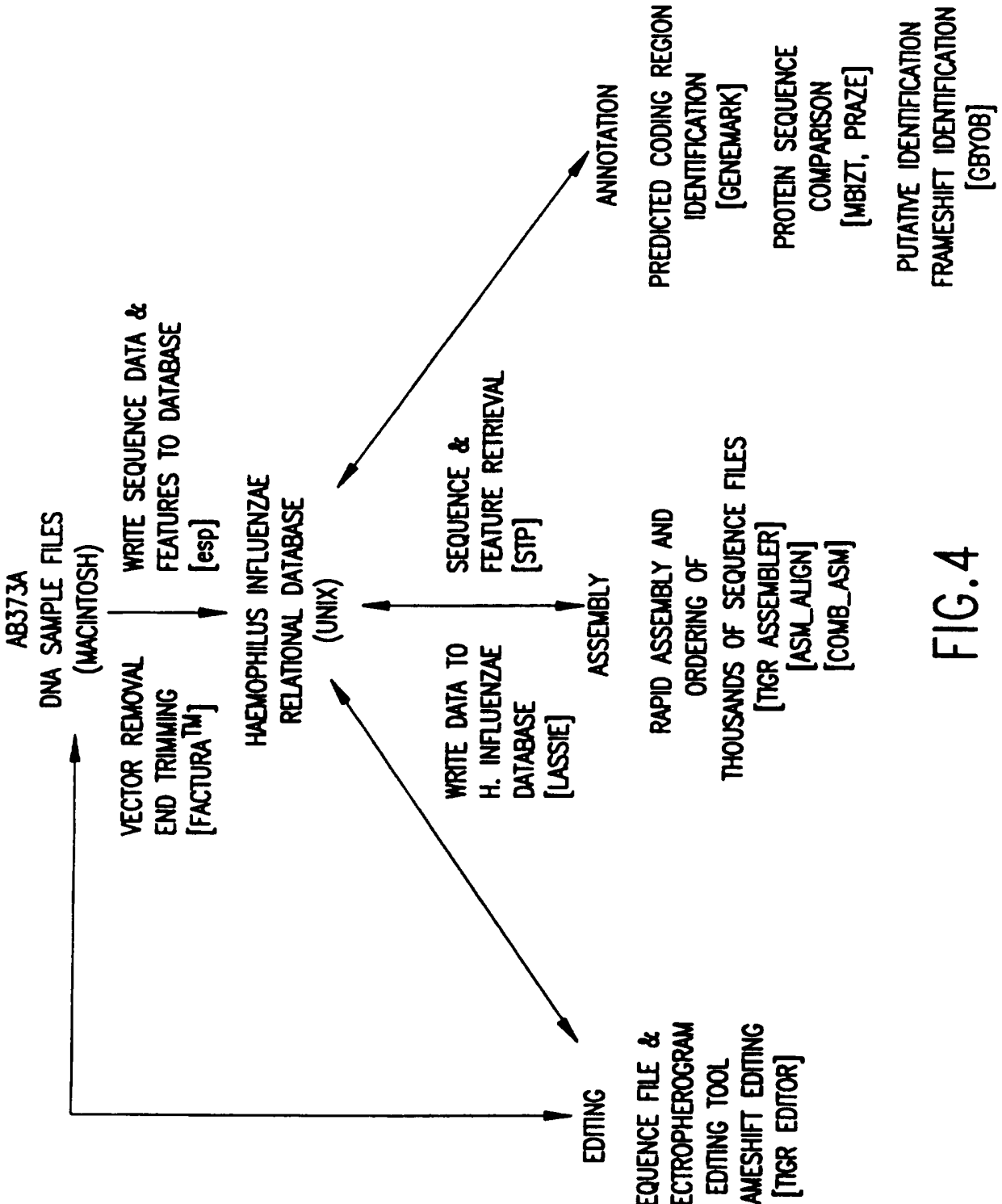
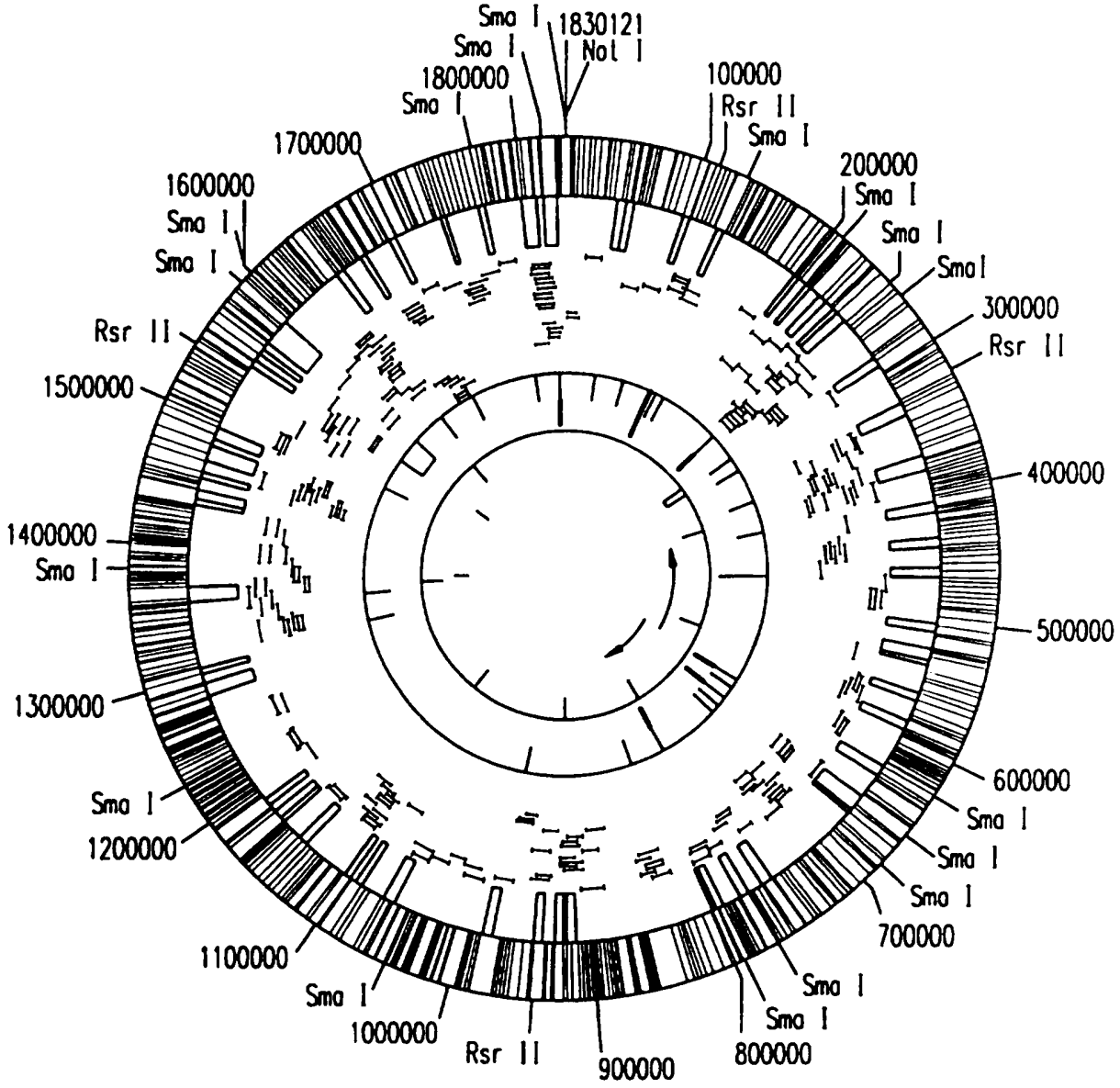

AB373A
DNA SAMPLE FILES
(MACINTOSH)
VECTOR REMOVAL
END TRIMMING
[FACTURA™]
WRITE SEQUENCE DATA &
FEATURES TO DATABASE
[esp]
HAEMOPHILUS INFLUENZAE
RELATIONAL DATABASE
(UNIX)
SEQUENCE &
FEATURE RETRIEVAL
[STP]
WRITE DATA TO
H. INFLUENZAE
DATABASE
[LASSIE]
ASSEMBLY
RAPID ASSEMBLY AND
ORDERING OF
THOUSANDS OF SEQUENCE FILES
[TIGR ASSEMBLER]
[ASM_ALIGN]
[COMB_ASM]
ANNOTATION
PREDICTED CODING REGION
IDENTIFICATION
[GENEMARK]
PROTEIN SEQUENCE
COMPARISON
[MBIZI, PRAZE]
PUTATIVE IDENTIFICATION
FRAMESHIFT IDENTIFICATION
[GBYOB]
EDITING
SEQUENCE FILE &
ELECTROPHEROGRAM
EDITING TOOL
FRAMESHIFT EDITING
[TIGR EDITOR]

FIG.4



HAEMOPHILUS INFLUENZAE

FIG.5

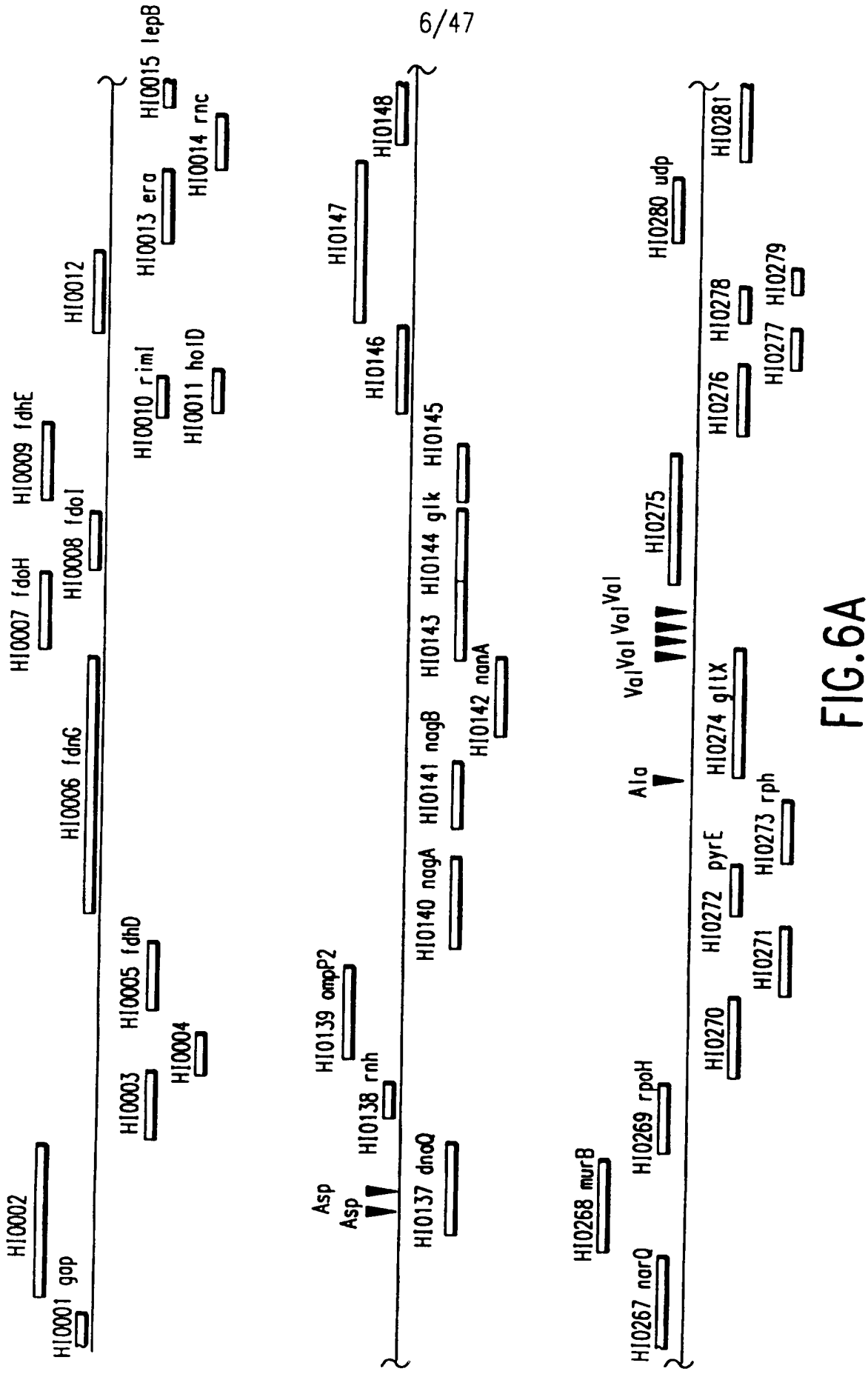

HI0001 gap
HI0002
HI0003
HI0004
HI0005 fdhD
HI0006 fdnG
HI0007 fdoH
HI0008 fdoI
HI0009 fdhE
HI0010 rimI
HI0011 holD
HI0012
HI0013 era
HI0014 rnc
HI0015 lepB
HI0137 dnaQ
Asp
Asp
HI0138 rnh
HI0139 ompP2
HI0140 nagA
HI0141 nagB
HI0142 nanA
HI0143
HI0144 glk
HI0145
HI0146
HI0147
HI0148
HI0267 narQ
HI0268 murB
HI0269 rpoH
HI0270
HI0271
HI0272 pyrE
HI0273 rph
HI0274 glgX
Ala
Val Val Val
HI0275
HI0276
HI0277
HI0278
HI0279
HI0280 udp
HI0281

FIG.6A

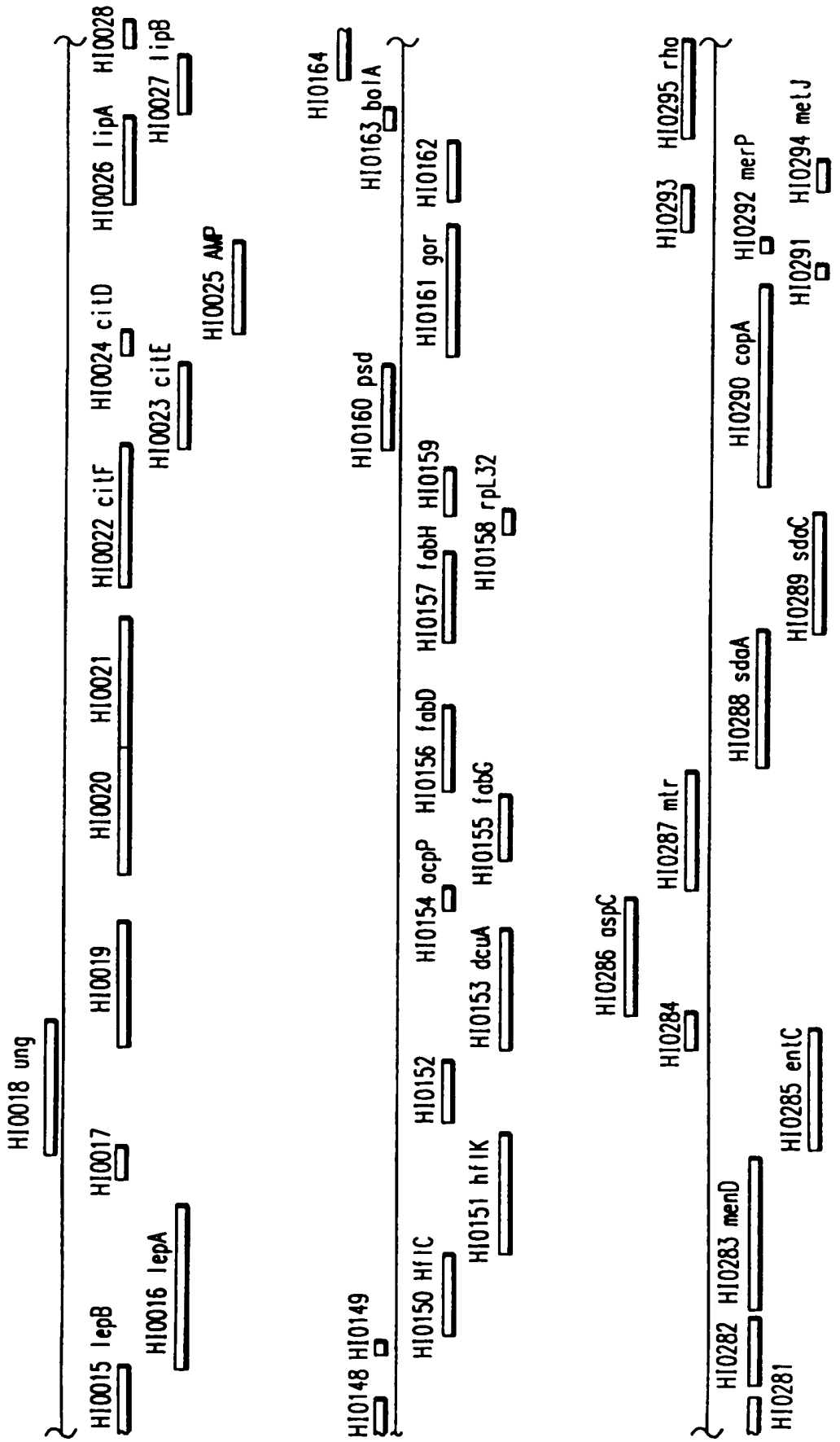

HI0015 lepB
HI0016 lepA
HI0017
HI0018 ung
HI0019
HI0020
HI0021
HI0022 citF
HI0023 citE
HI0024 citD
HI0025 AMP
HI0026 lipA
HI0027 lipB
HI0028
HI0148 HI0149
HI0150 HflC
HI0151 hflK
HI0152
HI0153 dcuA
HI0154 acpP
HI0155 fabG
HI0156 fabD
HI0157 fabH
HI0158 rplL32
HI0159
HI0160 psd
HI0161 gor
HI0162
HI0163 bolA
HI0164
HI0281
HI0282
HI0283 menD
HI0284
HI0285 entC
HI0286 aspC
HI0287 mtr
HI0288 sdaA
HI0289 sdaC
HI0290 copA
HI0291
HI0292 merP
HI0293
HI0294 metJ
HI0295 rho

FIG.6B

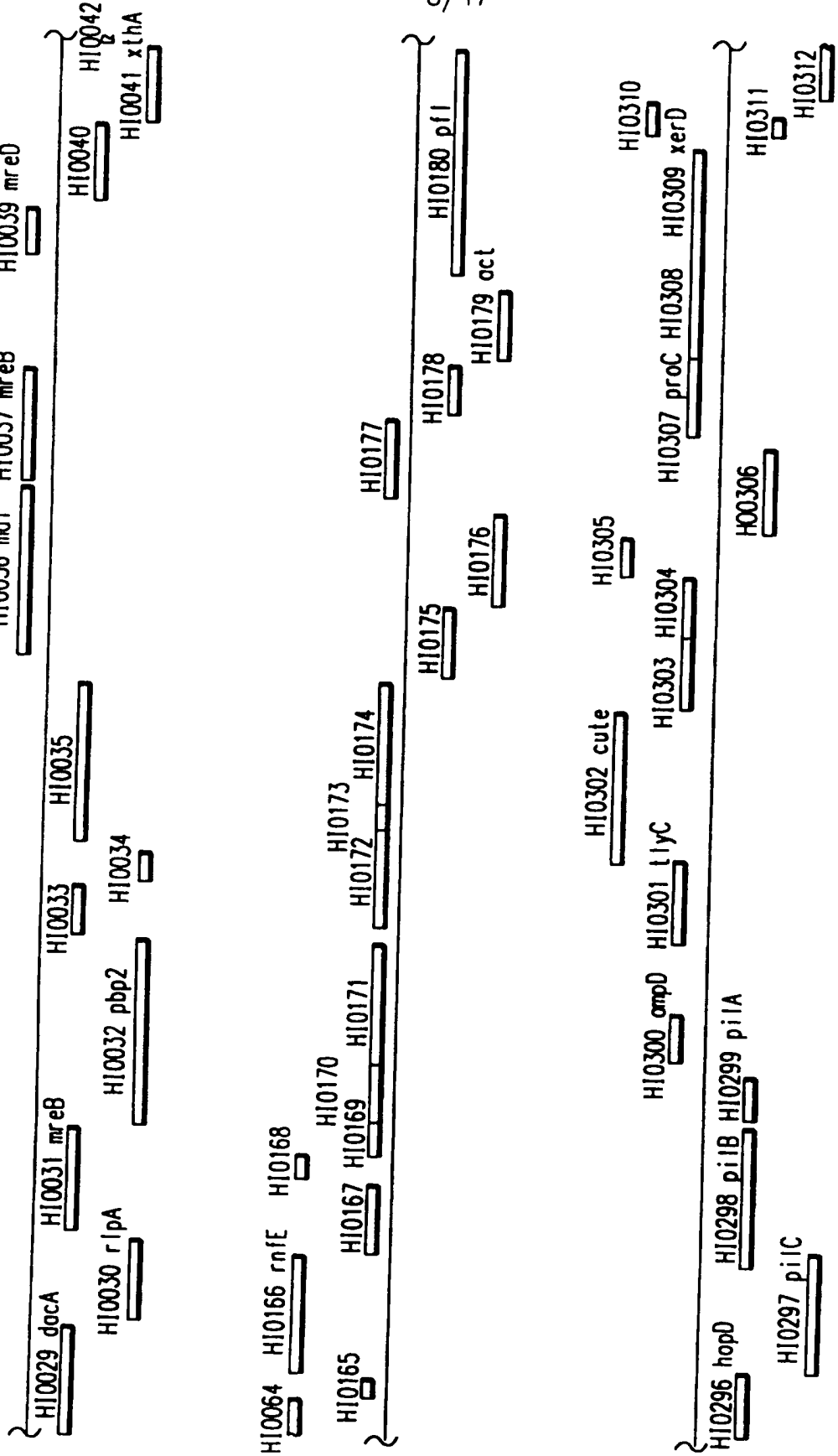

H10029 docA
H10030 rlpA
H10031 mreB
H10032 pbp2
H10033
H10034
H10035
H10036 mdl
H10037 mreB
H10038 mreC
H10039 mreD
H10040
H10041 xthA
H10042
H10064
H10165
H10166 rnfE
H10167
H10168
H10169
H10170
H10171
H10172
H10173
H10174
H10175
H10176
H10177
H10178
H10179 act
H10180 pfl
H10296 hopD
H10297 pilC
H10298 pilB
H10299 pilA
H10300 ompD
H10301 tlyC
H10302 cute
H10303
H10304
H10305
H00306
H10307 proC
H10308
H10309 xerD
H10310
H10311
H10312

FIG.6C

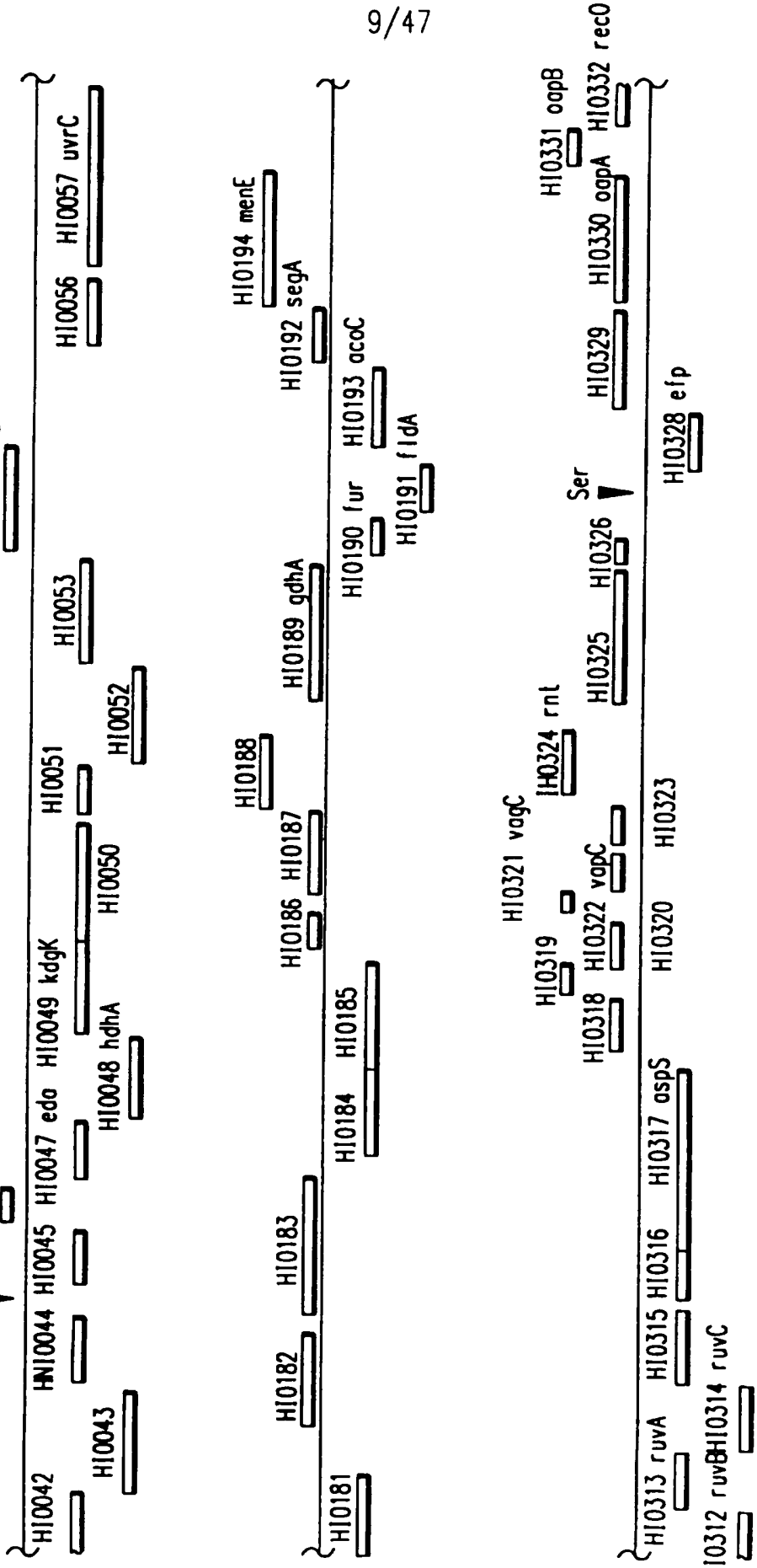

H10042
H10043
H10044
H10045
H10046
Ser
H10047 eda
H10048 hdhA
H10049 kdgK
H10050
H10051
H10052
H10053
H10054 uxuR
H10055 uxuA
H10056
H10057 uvrC
H10181
H10182
H10183
H10184
H10185
H10186
H10187
H10188
H10189 gdhA
H10190 fur
H10191 fldA
H10192 segA
H10193 acoC
H10194 menE
H10312 ruvB
H10313 ruvA
H10314 ruvC
H10315
H10316
H10317 aspS
H10318
H10319
H10320
H10321 vacC
H10322 vacC
H10323
H10324 rnt
H10325
H10326
Ser
H10328 efp
H10329
H10330 aapA
H10331 aapB
H10332 recO

FIG.6D

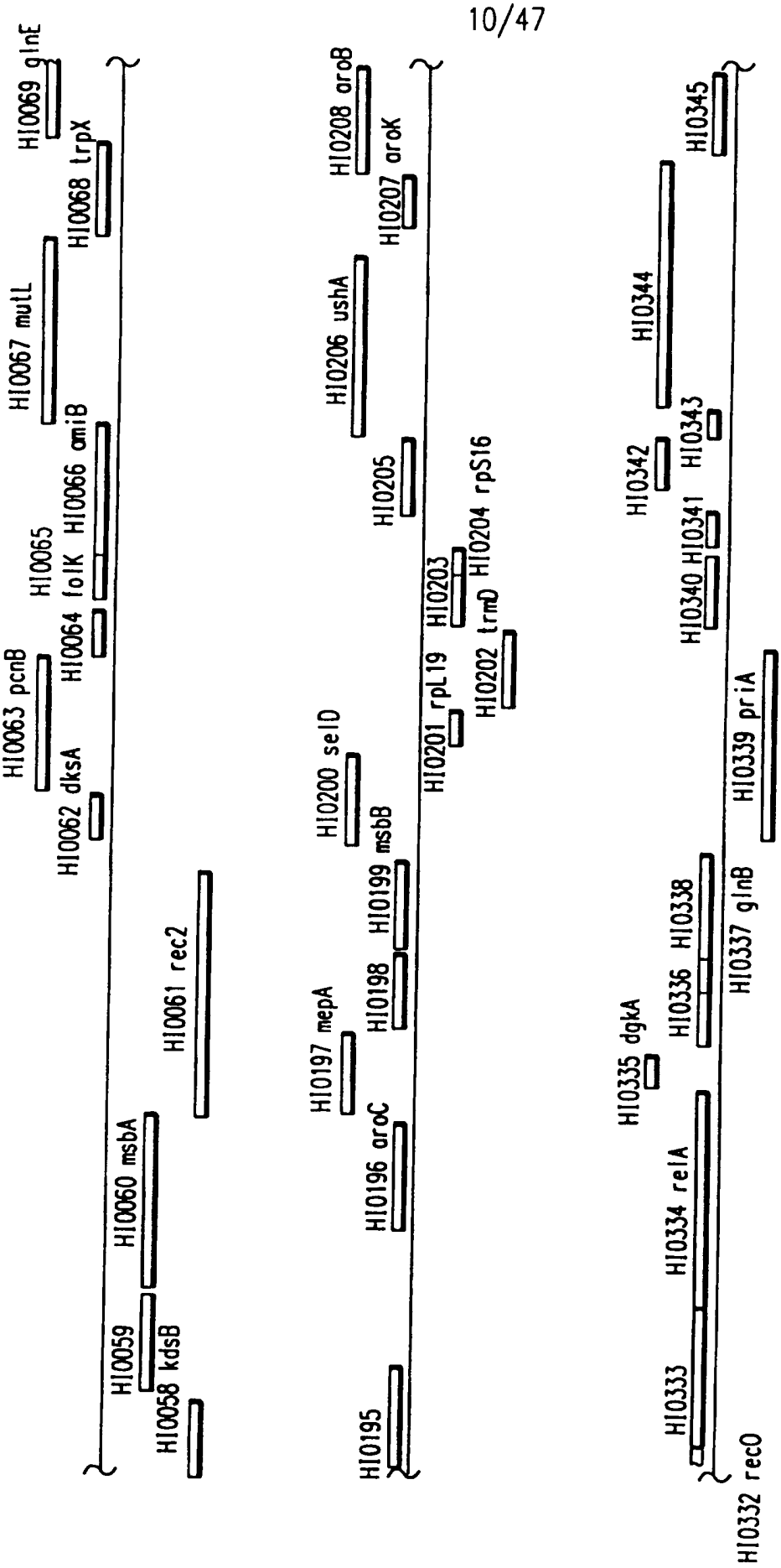

HI0069 glnE
HI0068 trpX
HI0067 mutL
HI0066 amiB
HI0065
HI0064 folK
HI0063 pcnB
HI0062 dksA
HI0061 rec2
HI0060 msbA
HI0059
HI0058 kdsB
HI0208 aroB
HI0207 aroK
HI0206 ushA
HI0205
HI0204 rpS16
HI0203 trmD
HI0202
HI0201 rplT9
HI0200 selD
HI0199 msbB
HI0198
HI0197 mepA
HI0196 aroC
HI0195
HI0345
HI0344
HI0343
HI0342
HI0341
HI0340
HI0339 priA
HI0338
HI0337 glnB
HI0336
HI0335 dgkA
HI0334 relA
HI0333
HI0332 recO

FIG.6E

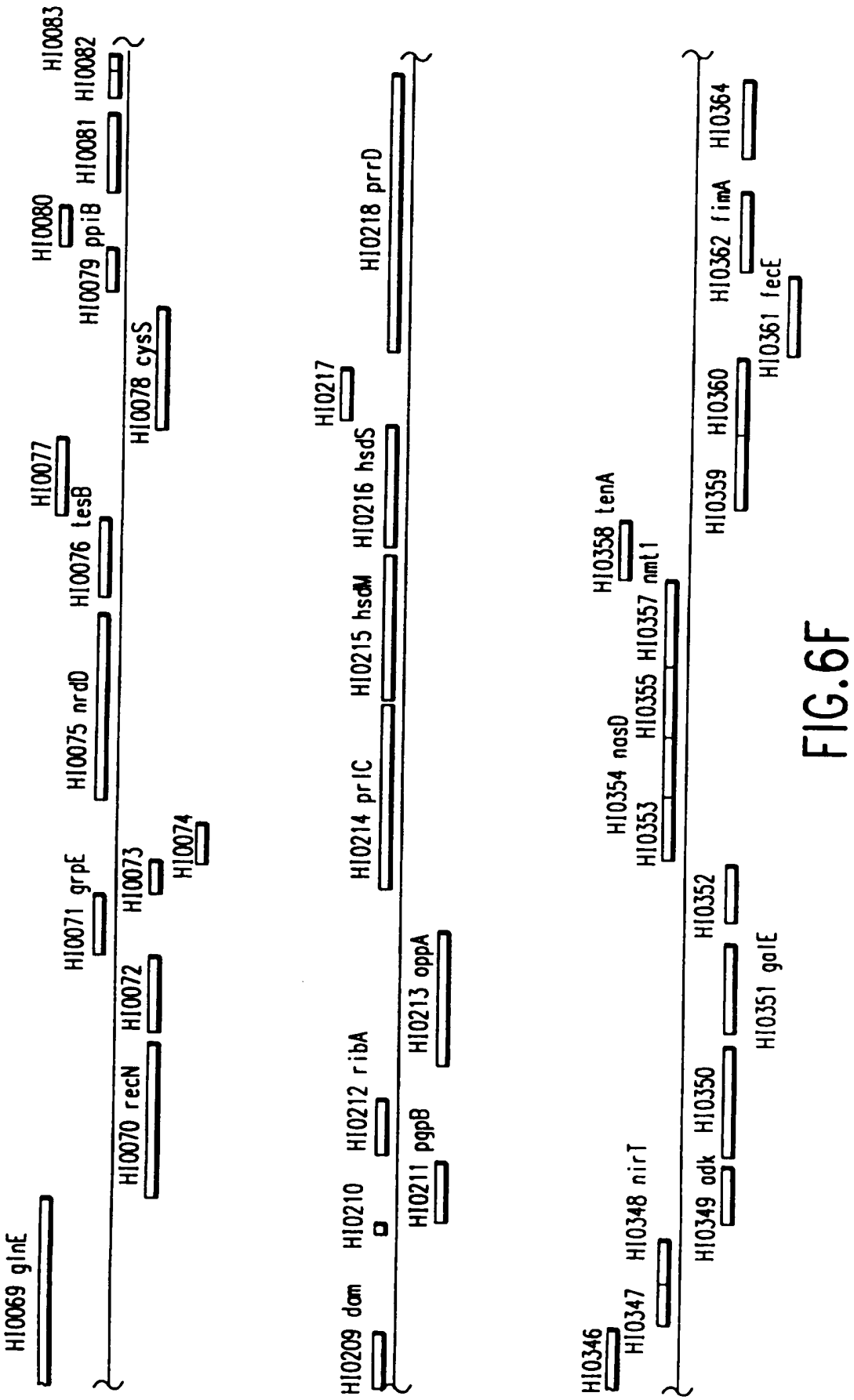

H10069 glnE
H10070 recN
H10071 grpE
H10072
H10073
H10074
H10075 nrdD
H10076 lesB
H10077
H10078 cysS
H10079 ppiB
H10080
H10081
H10082
H10083
H10209 dam
H10210
H10211 pgpB
H10212 ribA
H10213 oppA
H10214 prlC
H10215 hsdM
H10216 hsdS
H10217
H10218 prrD
H10346
H10347
H10348 nirT
H10349 adk
H10350
H10351 golE
H10352
H10353
H10354 nasD
H10355
H10357 nmt1
H10358 tenA
H10359
H10360
H10361 fecE
H10362 fimA
H10364

FIG.6F

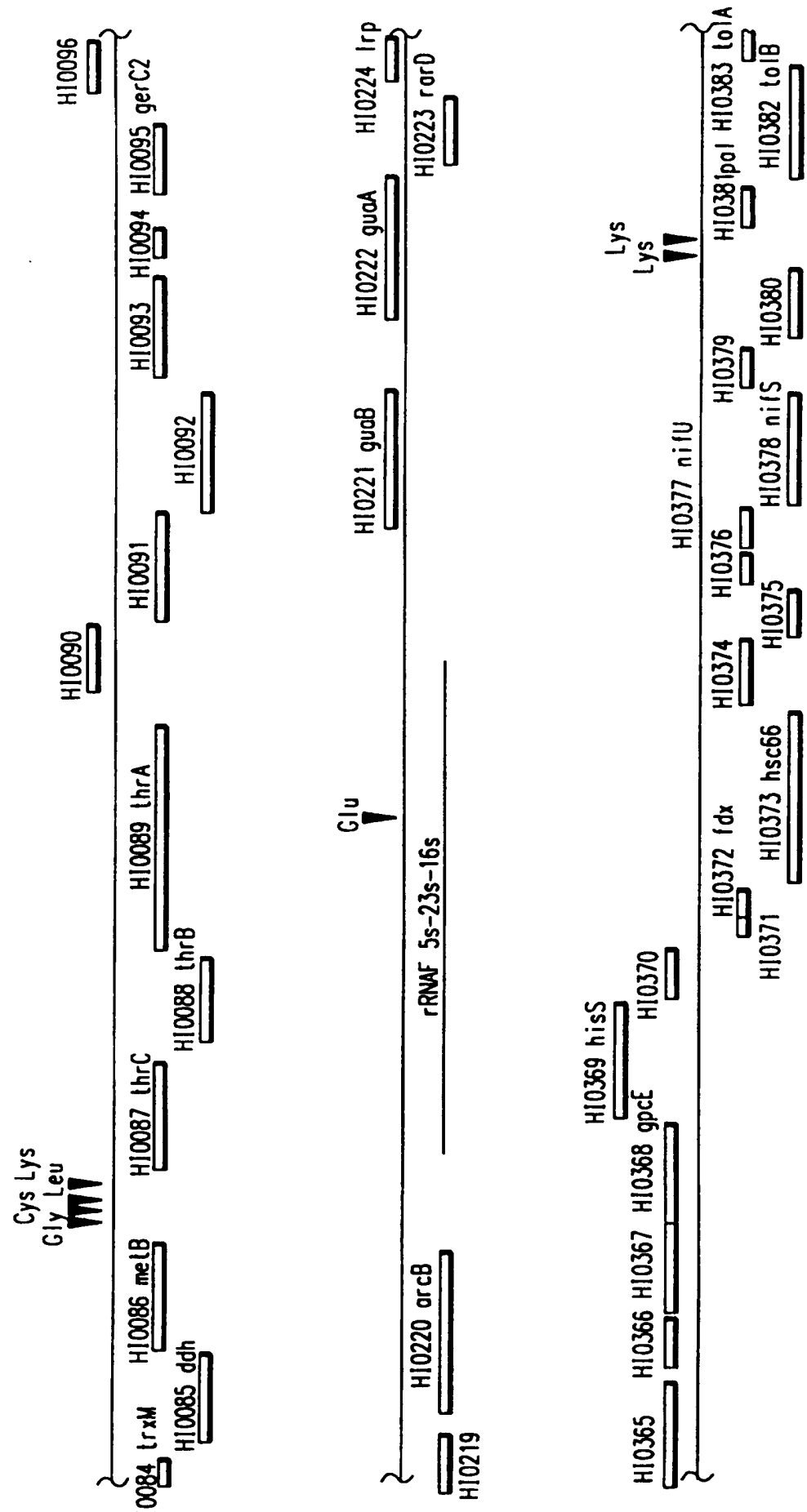

H10084 trxM
H10085 ddh
H10086 melB
H10087 thrC
H10088 thrB
H10089 thrA
H10090
H10091
H10092
H10093
H10094
H10095 gerC2
H10096
Cys Lys
Gly Leu
H10219
H10220 arcB
rRNAF 5s-23s-16s
Glu
H10221 guaB
H10222 guaA
H10223 rarD
H10224 lrp
H10365
H10366 H10367 H10368 gpcE
H10369 hisS
H10370
H10371
H10372 fdx
H10373 hsc66
H10374
H10375
H10376
H10377 nifU
H10378 nifS
H10379
H10380
Lys
Lys
H10381 pol H10383 tolA
H10382 tolB

FIG.6G

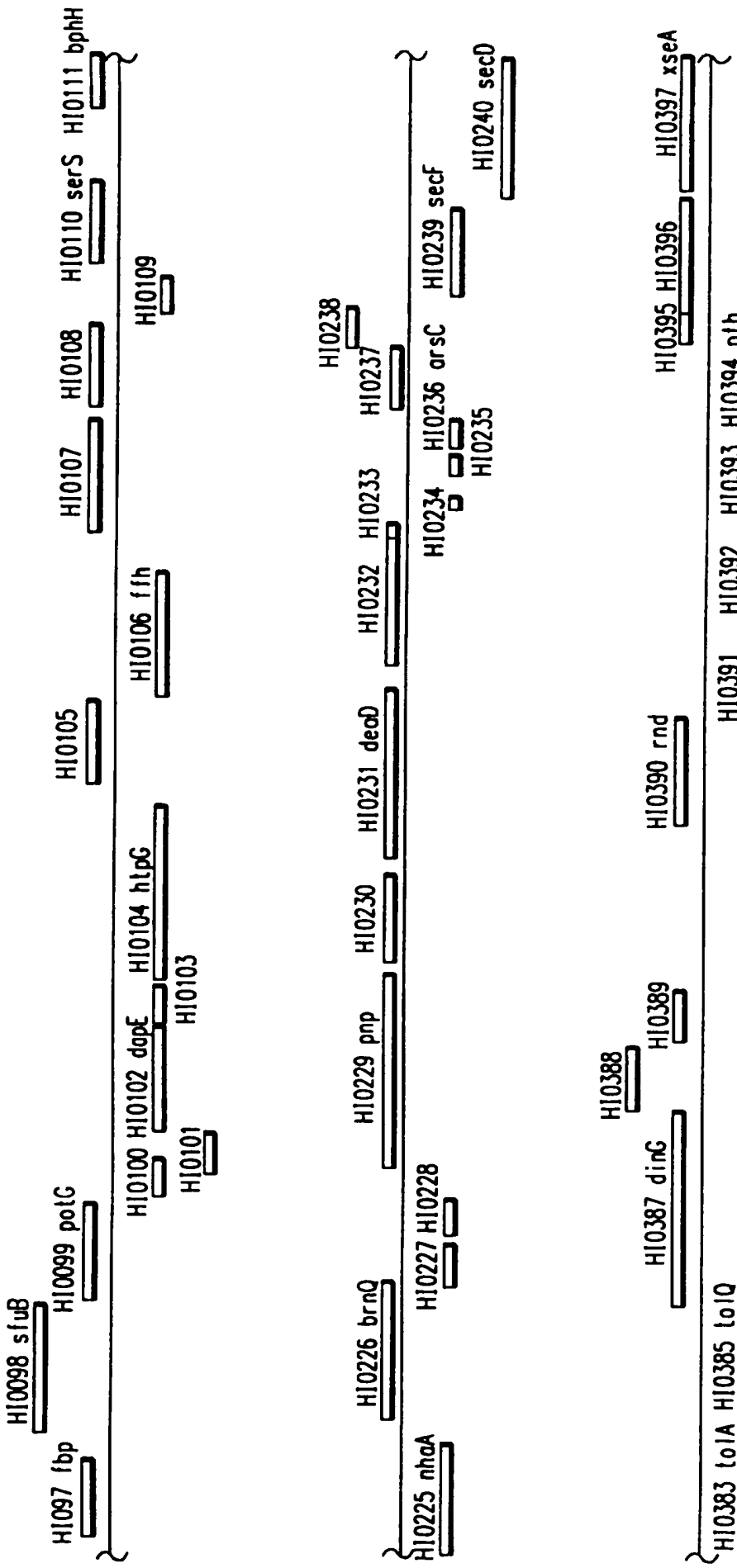

H10111 bphH
H10110 serS
H10109
H10108
H10107
H10106 ffh
H10105
H10104 hlpC
H10103
H10102 dapE
H10101
H10100
H10099 potC
H10098 sfuB
H1097 fbp
H10240 secD
H10239 secF
H10238
H10237
H10236 arsC
H10235
H10234
H10233
H10232
H10231 deaD
H10230
H10229 pnp
H10228
H10227
H10226 brnQ
H10225 nhaA
H10397 xseA
H10396
H10395
H10394 pth
H10393
H10392
H10391
H10390 rnd
H10389
H10388
H10387 dinG
H10386
H10385 tolQ
H10384 tolR
H10383 tolA

FIG.6H

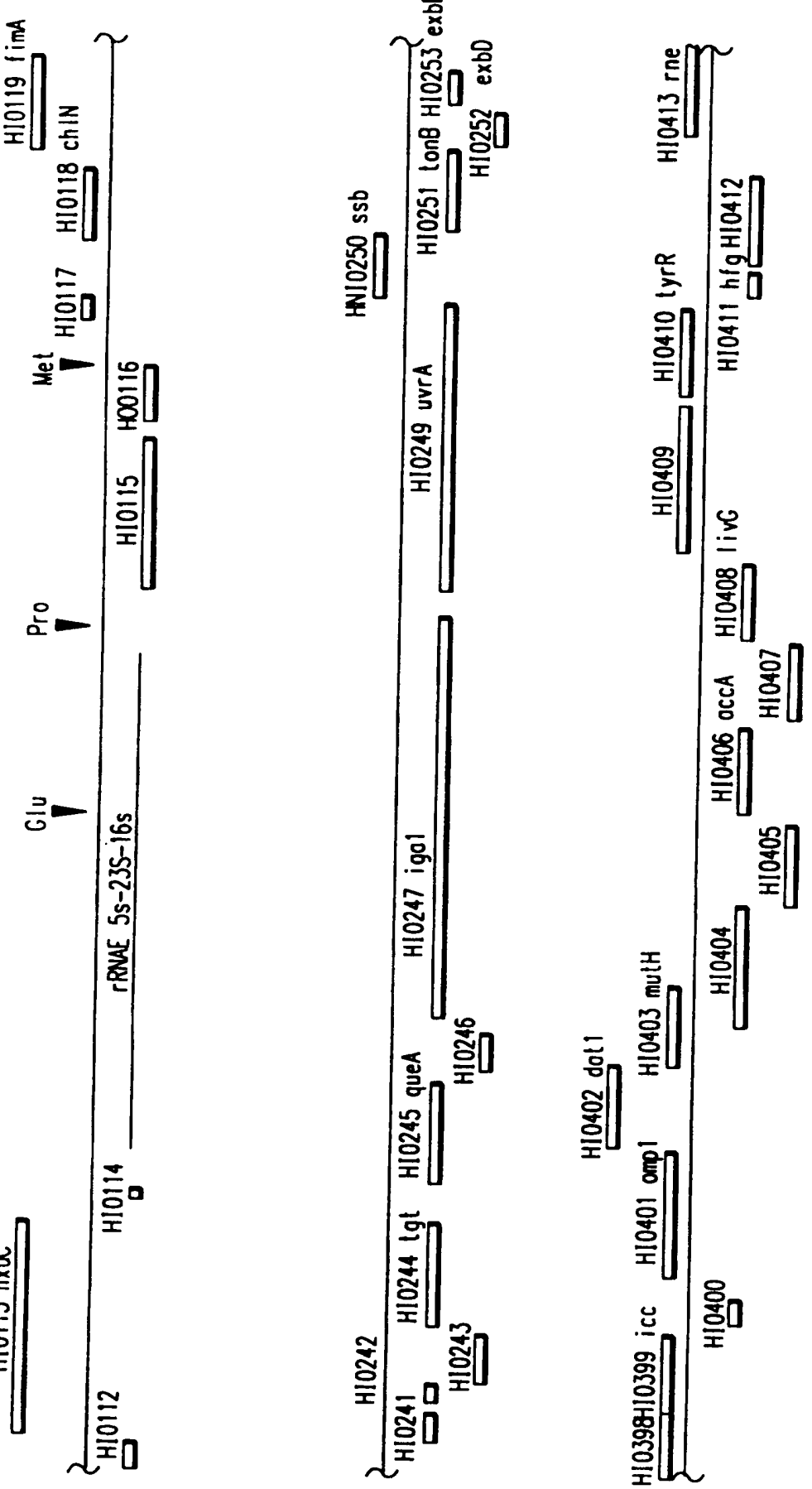

HI0119 fimA
HI0118 chlN
HI0117
Met
HI0116
HI0115
Pro
rRNAE 5s-23S-16s
Glu
HI0114
HI0113 hxuC
HI0112
HNI0250 ssb
exbB
HI0253
HI0251 tonB
exbD
HI0252
HI0249 uvrA
HI0247 igo1
HI0246
HI0245 queA
HI0244 lgt
HI0243
HI0242
HI0241
HI0413 rne
HI0412
HI0411 hfg
HI0410 tyrR
HI0409
HI0408 livG
HI0407
HI0406 occA
HI0405
HI0404
HI0403 mutH
HI0402 dal1
HI0401 omp1
HI0400
HI0399 icc
HI0398

FIG.6I


150,000 nt
300,000 nt
450,000 nt
H10120
H10121
H10122 metC
H10123 pgsA
Leu
Gly Lys
H10124 ppa
H10125
H10126 H10127
H10129 nifC
H10130
H10131
H10132 udk
H10133 dcd
H10134
H10135
H10254 bcp
H10255 dapA
H10256
H10257
Ser
H10258 H10259
H10260
H10261 opsX
H10262 hemR
H10263 hxuB
H10264 hxuA
H10265
H10266
H10267 norQ
H10413 rne
H10414 apa66
H10415
H10416
H10417
H10418
H10419 prfC
H10420
H10421
H10422 srmB
H10423
H10424
H10425 pssA
H10426 fadR
H10427 nhaB

FIG.6J

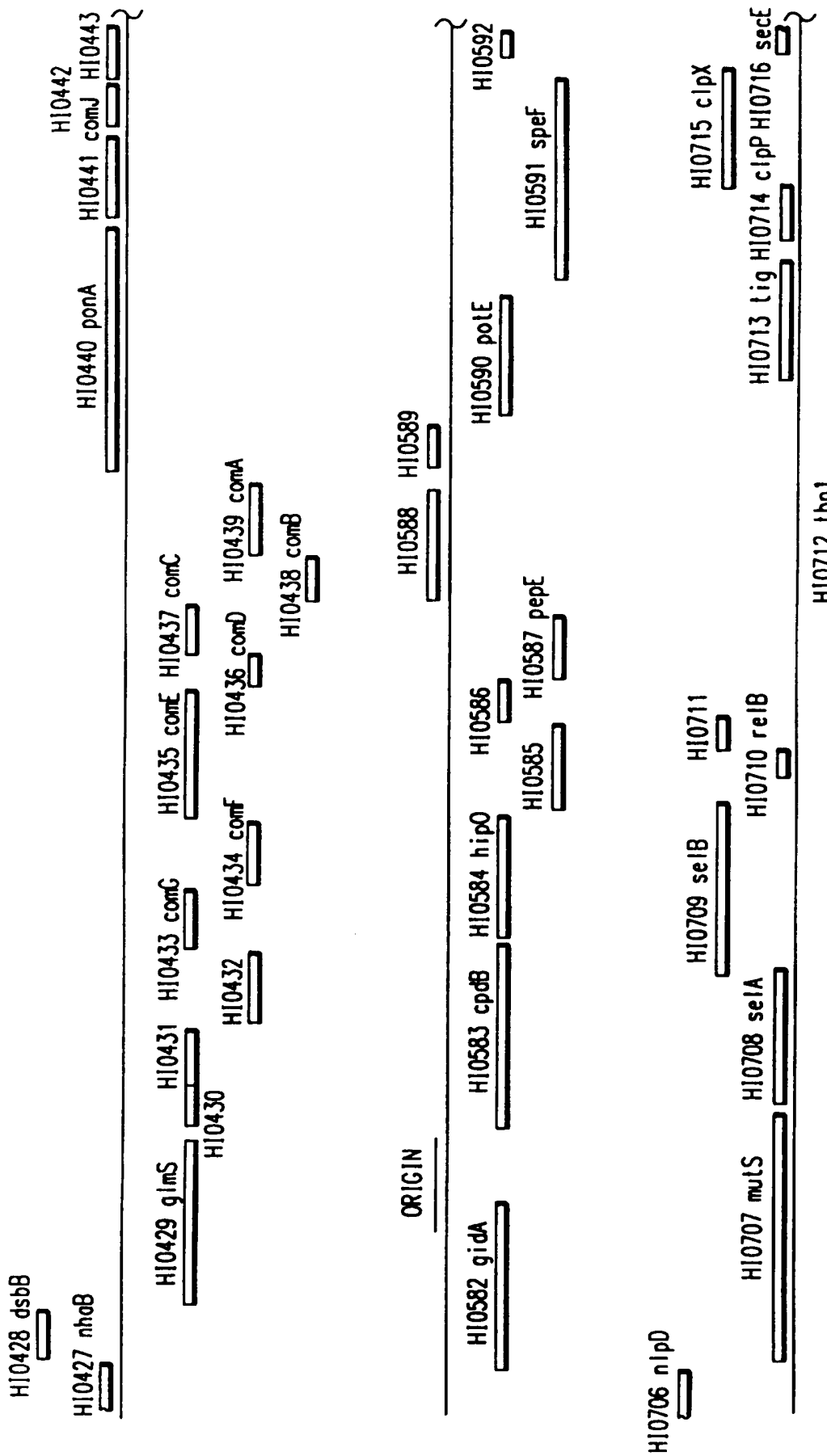

H10428 dsbB
H10427 nhoB
H10429 glmS
H10431
H10433 comG
H10435 comE
H10437 comC
H10439 comA
H10440 ponA
H10441 comJ
H10443 recR
H10442
H10430
H10432
H10434 comF
H10436 comD
H10438 comB
ORIGIN
H10582 gidA
H10583 cpdB
H10584 hipO
H10585
H10586
H10587 pepE
H10588
H10589
H10590 potE
H10591 speF
H10592
H10706 nlpD
H10707 mutS
H10708 selA
H10709 selB
H10710 relB
H10711
H10712 tbp1
H10713 tig
H10714 clpP
H10715 clpX
H10716 secE

FIG.6K

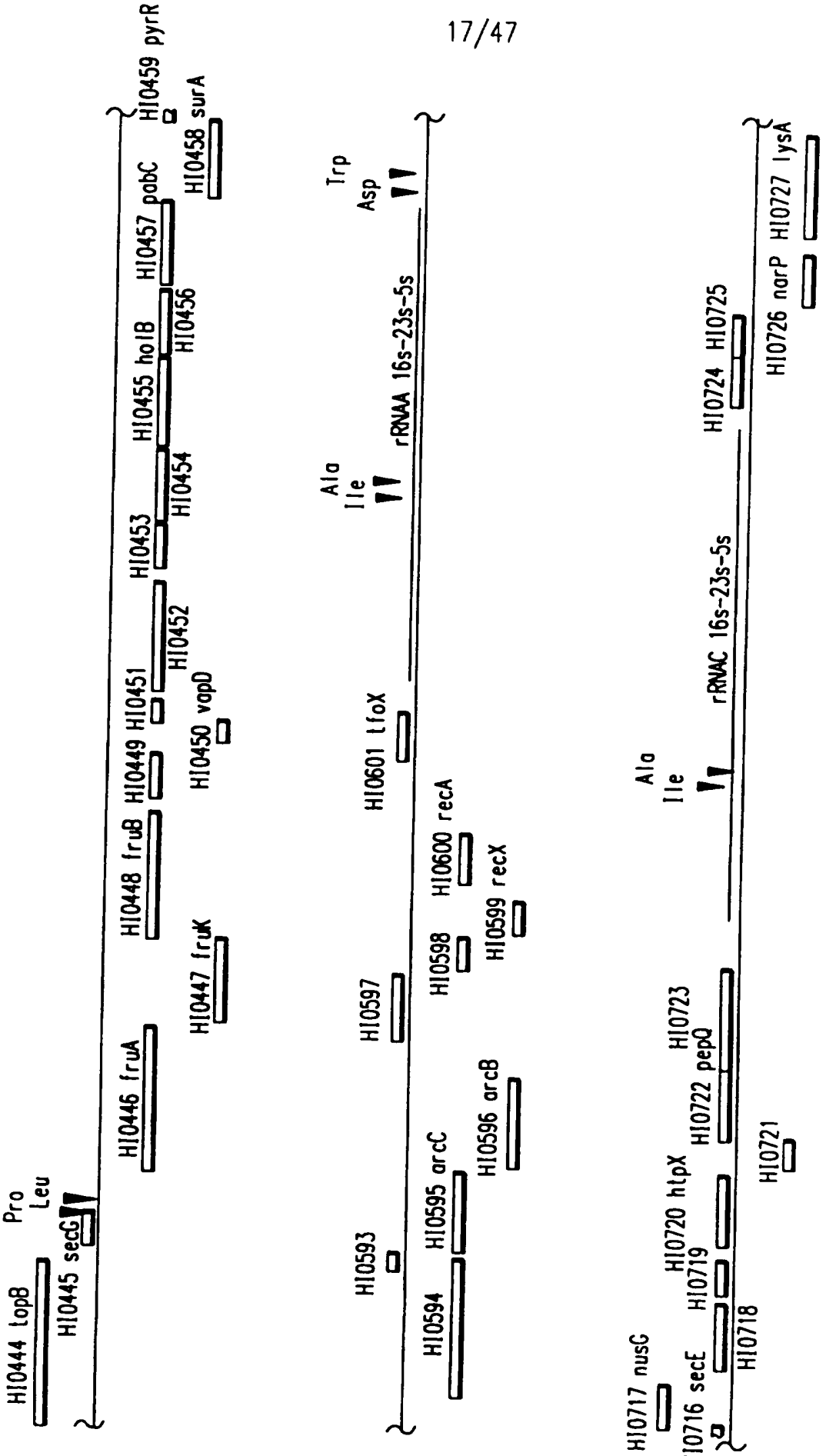

HI0444 lopB
Pro
Leu
HI0445 secG
HI0446 fruA
HI0447 fruK
HI0448 fruB
HI0449
HI0450 vapD
HI0451
HI0452
HI0453
HI0454
HI0455 holB
HI0456
HI0457 pabC
HI0458 surA
HI0459 pyrR
HI0593
HI0594
HI0595 arcC
HI0596 arcB
HI0597
HI0598
HI0599 recX
HI0600 recA
HI0601 tfoX
Ala
Ile
rRNAA 16s-23s-5s
Trp
Asp
HI0717 nusG
HI0716 secE
HI0718
HI0719
HI0720 htpX
HI0721
HI0722 pepQ
HI0723
Ala
Ile
rRNAC 16s-23s-5s
HI0724
HI0725
HI0726 narP
HI0727 lysA

FIG.6L


HI0471 hisB
HI0469 hisD
HI0470 hisC
HI0468 hisG
HI0467
HI0466
HI0465 serA
HI0464
HI0463 hemN
HI0462 lon
HI0461 lopB
HI0460 mazG
HI0459 pyrR
Arg
Pro
HI0613 fucK
HI0612 fucU
HI0611 fucA
HI0610 fucP
HI0609 folD
HI0608
HI0607
HI0606 cysE
HI0605 gpsA
HI0604 cyaA
HI0603 hemX
HI0602 hemY
HI0738 ilvD
HI0737 ilvC
HI0736
HI0735
HI0734 plsC
HI0733
HI0732
HI0731
HI0730
HI0729 proS
HI0728 recQ

FIG.6M


HI0489
HI0488
HI0490
HI0486 gidB
HI0487
HI0484 atpE
HI0485 atpB
HI0483 atpF
HI0482 atpH
HI0481 atpA
HI0480 atpG
HI0479 atpD
HI0478 atpC
HI0477 tyrP
HI0476
HI0475 hisIE
HI0474 hisF
HI0473 hisA
HI0472 hisH
HI0471 hisB
Glu
rRNAB 16s-23s-5s
HI0621 abc
HI0620 hlpA
HI0619 glpR
HI0618 glpG
HI0617
HI0616 hepA
HI0615 fucR
HI0614 fucI
HI0613 fucK
HI0746 dcuA
HI0747 ndh
HI0745 ansB
HI0744
HI0743 secB
HI0742
HI0740
HI0739 dnaE
HI0748 plsB

FIG.6N

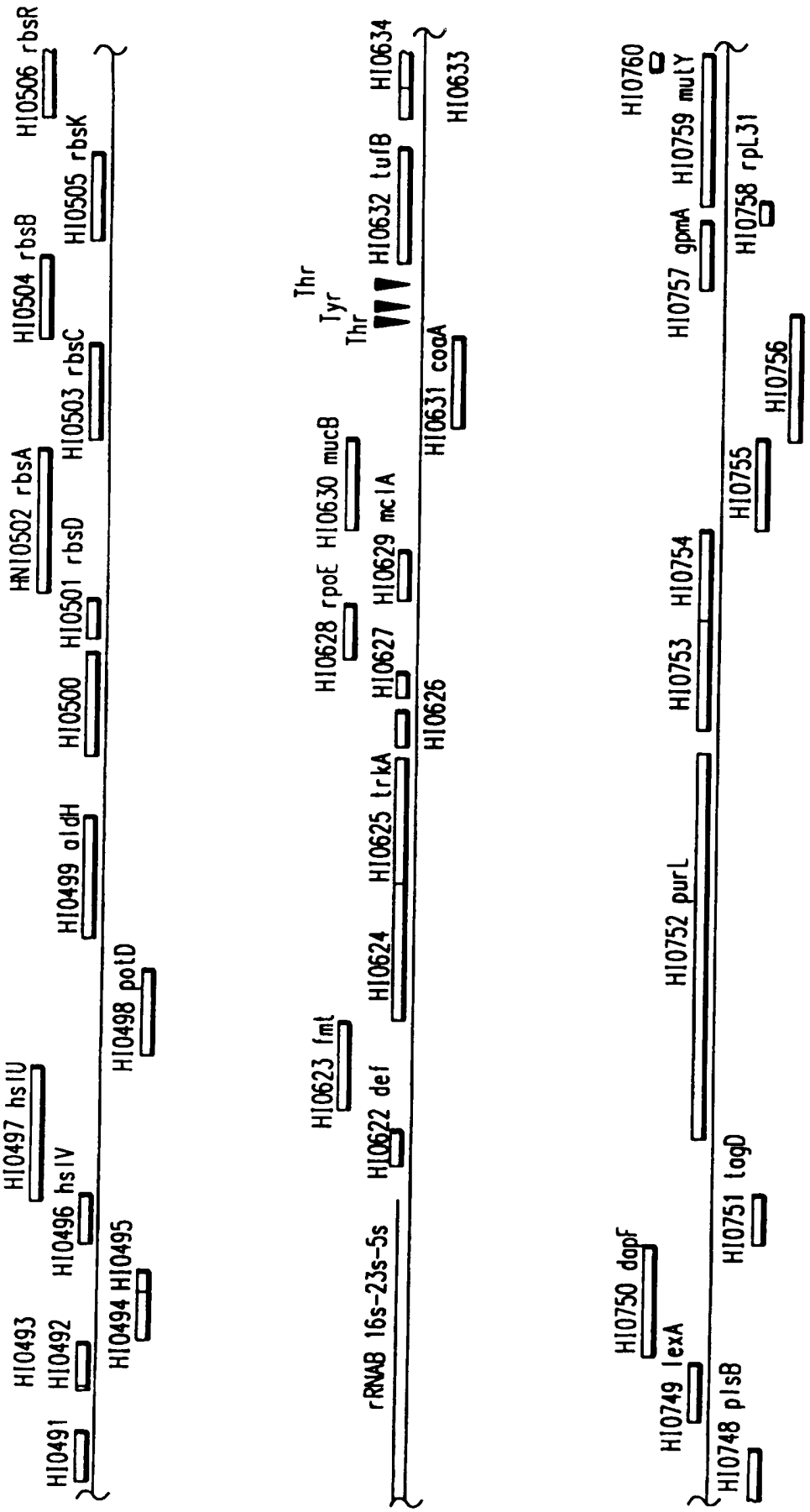

HI0491
HI0493
HI0492
HI0497 hslU
HI0496 hslV
HI0494 HI0495
HI0498 potD
HI0499 aldH
HI0500
HI0501 rbsD
HN10502 rbsA
HI0503 rbsC
HI0504 rbsB
HI0505 rbsK
HI0506 rbsR
rRNAB 16s-23s-5s
HI0622 def
HI0623 fmt
HI0624
HI0625 trkA
HI0626
HI0627
HI0628 rpoE
HI0630 mucB
HI0629 mclA
HI0631 cooA
Thr
Tyr
Thr
HI0632 tufB
HI0634
HI0633
HI0748 plsB
HI0749 lexA
HI0750 dapF
HI0751 logD
HI0752 purL
HI0753
HI0754
HI0755
HI0756
HI0757 gpmA
HI0759 mutY
HI0758 rplL31
HI0760

FIG.60

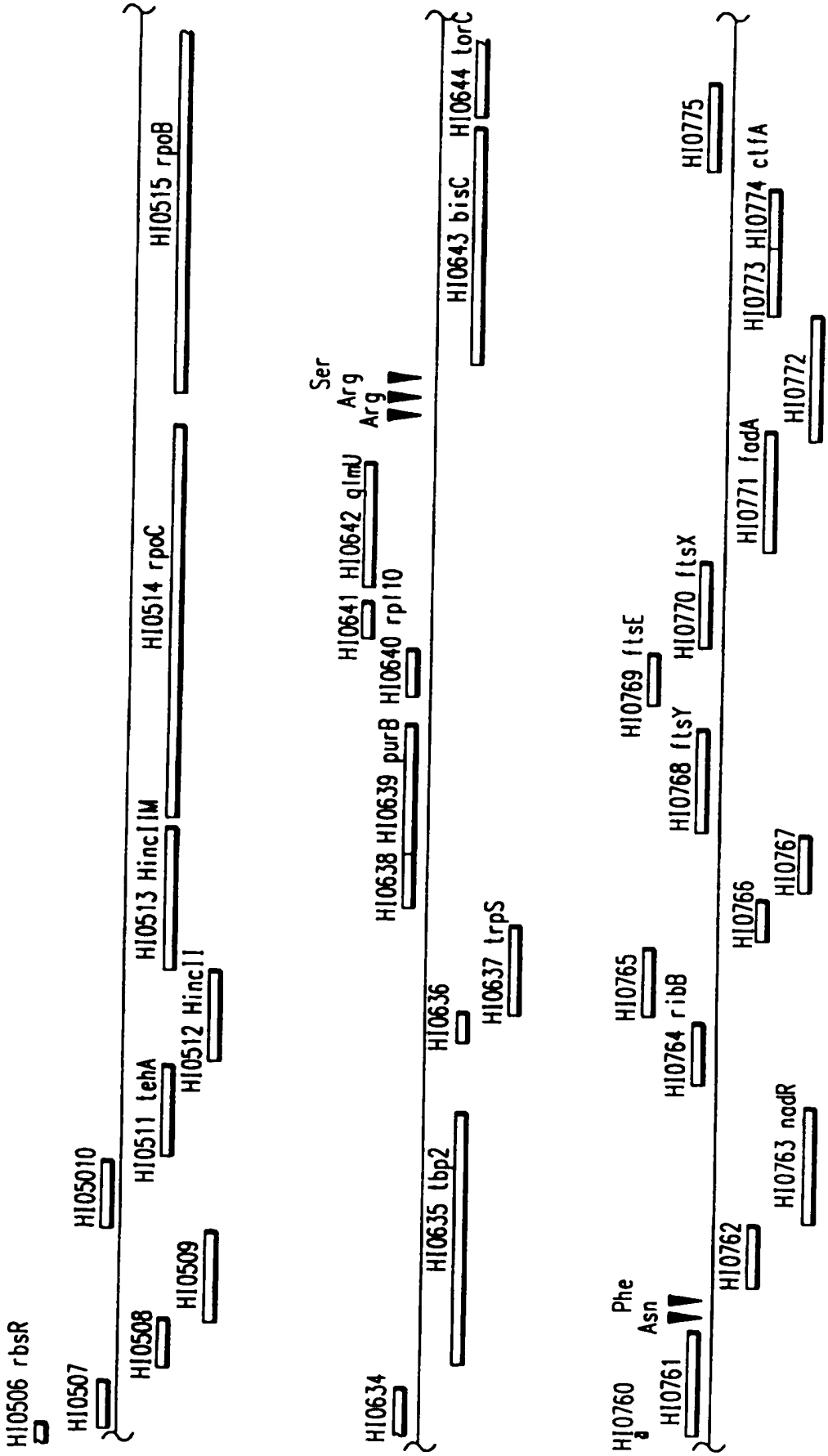

H10506 rbsR
H10507
H105010
H10508
H10509
H10512 HincII
H10511 tehA
H10513 HincIIM
H10514 rpoC
H10515 rpoB
H10634
H10635 tbp2
H10636
H10637 trpS
H10638 H10639 purB
H10640 rpl10
H10641 H10642 glmU
Ser
Arg
Arg
H10643 bisC
H10644 torC
H10760
Phe
Asn
H10761
H10762
H10763 nadR
H10764 ribB
H10765
H10766
H10767
H10768 ftsY
H10769 ftsE
H10770 ftsX
H10771 fadA
H10772
H10773 H10774 citA
H10775

FIG.6P

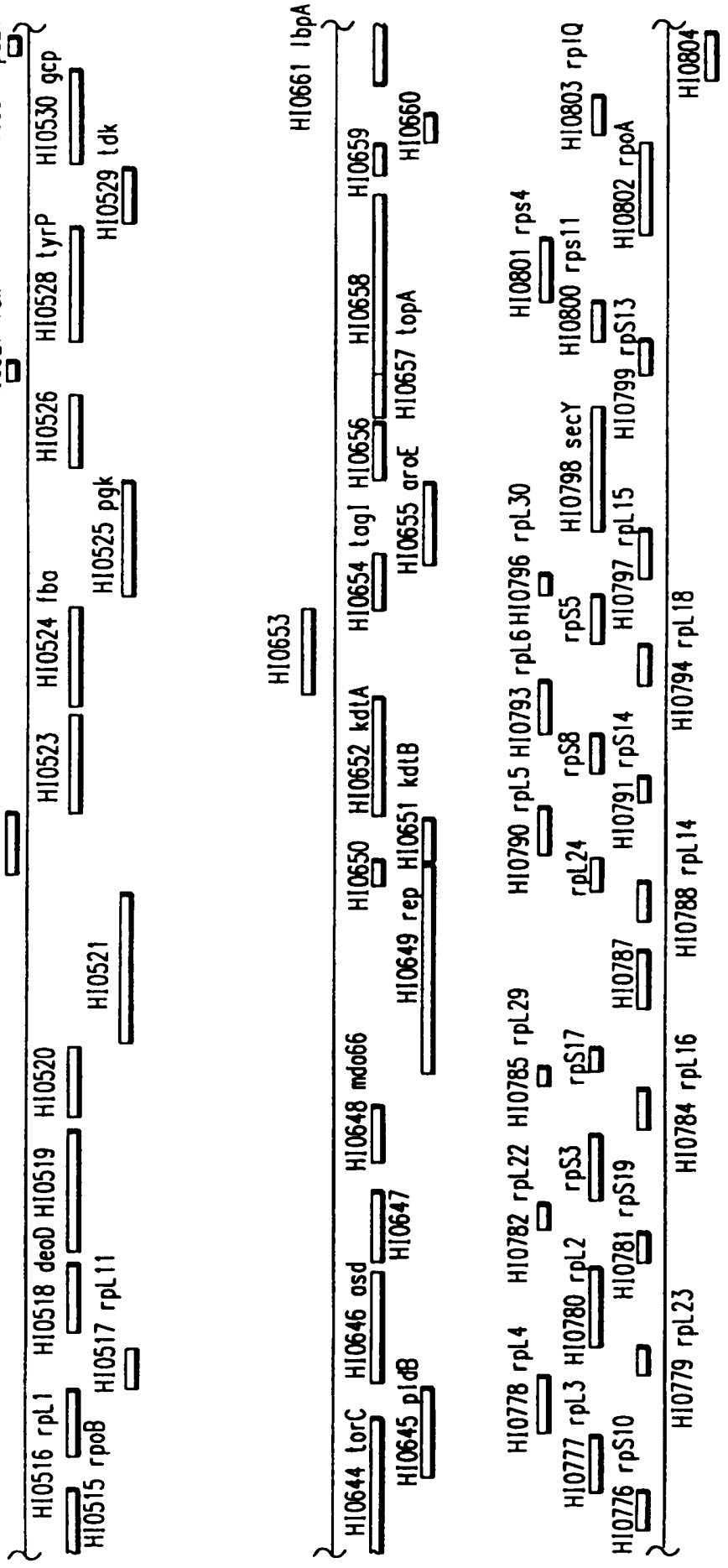

H10516 rplL
H10515 rpoB
H10518 deoD
H10517 rplL11
H10519
H10520
H10521
H10522
H10523
H10524 fba
H10525 pgk
H10526
H10527 fdx
H10528 tyrP
H10529 tdk
H10530 gcp
H10531 rpS21
H10644 torC
H10645 plsB
H10646 asd
H10647
H10648 mdo66
H10649 rep
H10650
H10651 kdtB
H10652 kdtA
H10653
H10654 tagl
H10655 aroE
H10656
H10657 topA
H10658
H10659
H10660
H10661 lbpA
H10776 rpS10
H10777 rplL3
H10778 rplL4
H10779 rplL23
H10780 rplL2
H10781 rpS19
H10782 rplL22
H10784 rplL16
H10785 rplL29
H10787
H10788 rplL14
H10790 rplL5
H10791 rpS14
H10793 rplL6
rpL24
rpS8
rpS3
rpS17
H10794 rplL18
H10796 rplL30
rpS5
H10797 rplL15
H10798 secY
H10799 rpS13
H10800 rps11
H10801 rps4
H10802 rpoA
H10803 rplQ
H10804

FIG.6Q

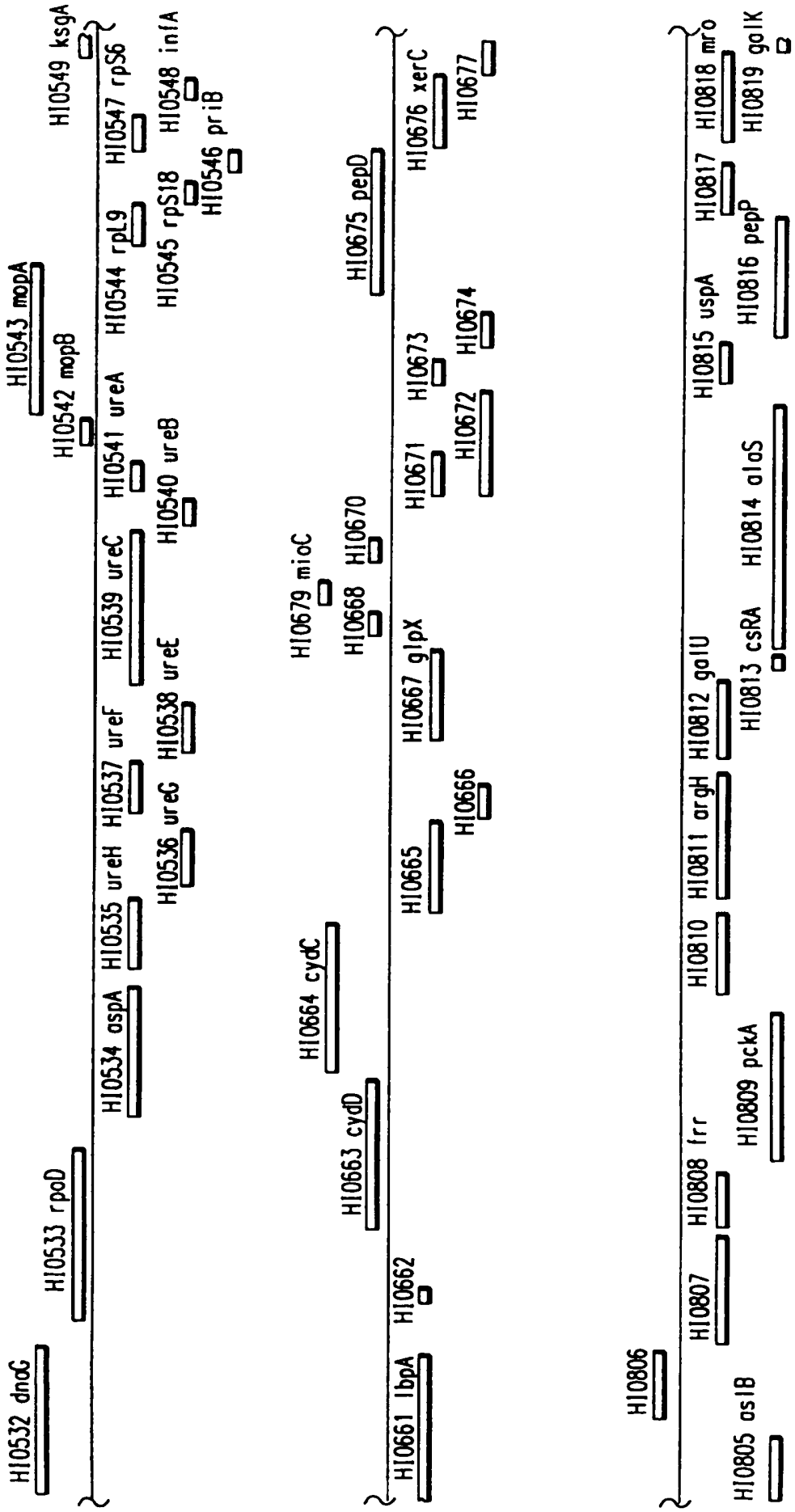

HI0532 dnaG
HI0533 rpoD
HI0534 ospA
HI0535 ureH
HI0536 ureG
HI0537 ureF
HI0538 ureE
HI0539 ureC
HI0540 ureB
HI0541 ureA
HI0542 mopB
HI0543 mopA
HI0544 rpL9
HI0545 rpS18
HI0546 priB
HI0547 rpS6
HI0548 infA
HI0549 ksgA
HI0661 lbpA
HI0662
HI0663 cydD
HI0664 cydC
HI0665
HI0666
HI0667 glpX
HI0668
HI0670
HI0671
HI0672
HI0673
HI0674
HI0675 pepD
HI0676 xerC
HI0677
HI0679 mioC
HI0805 osIB
HI0806
HI0807
HI0808 frr
HI0809 pckA
HI0810
HI0811 orgH
HI0812 galU
HI0813 csRA
HI0814 alaS
HI0815 uspA
HI0816 pepP
HI0817
HI0818 mro
HI0819 galK

FIG.6R

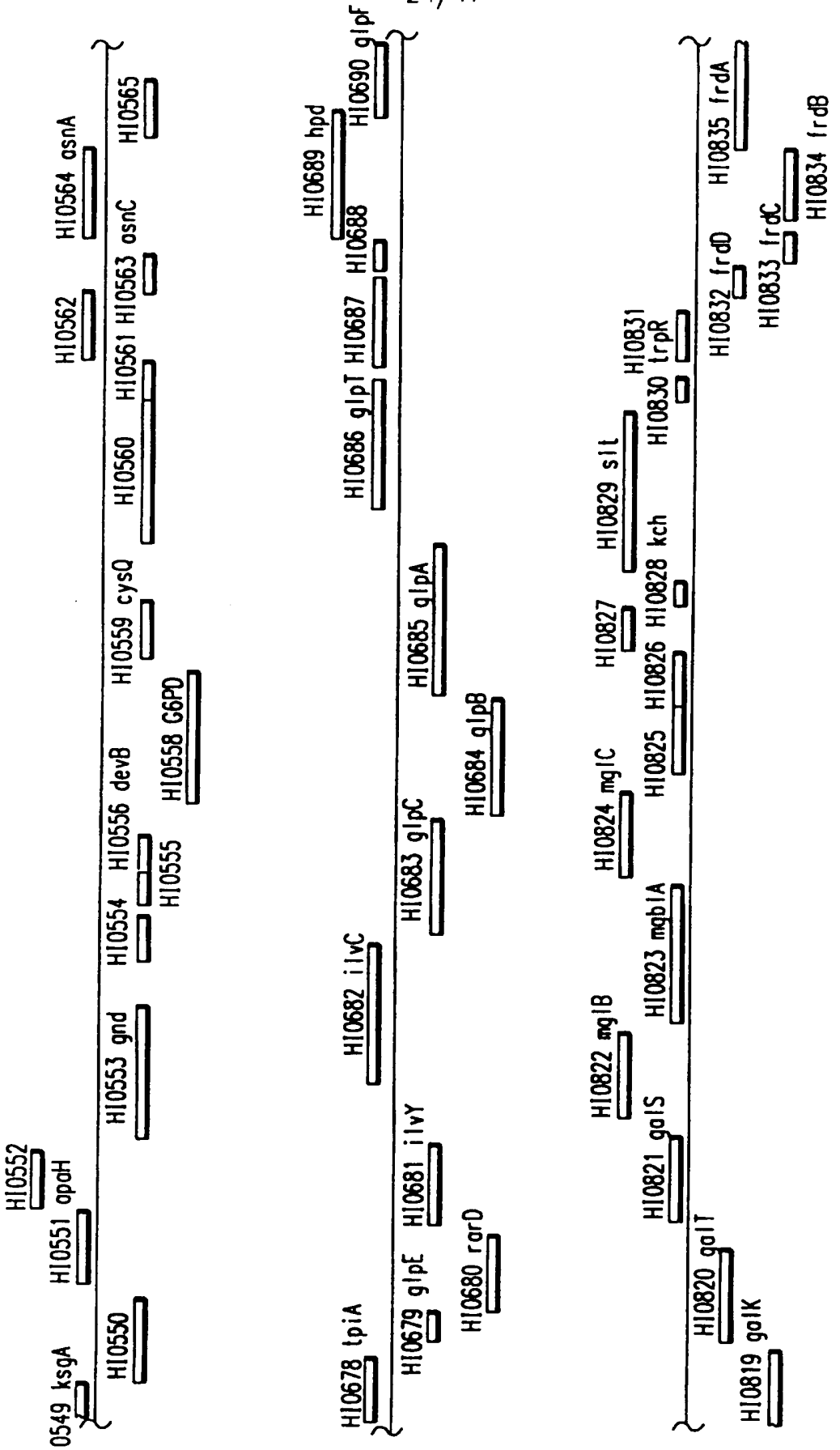

H10549 ksgA
H10550
H10551 opaH
H10552
H10553 gnd
H10554
H10555
H10556 devB
H10558 G6PD
H10559 cysQ
H10560
H10561
H10562
H10563 osnC
H10564 osnA
H10565
H10678 tpiA
H10679 glpE
H10680 rarD
H10681 ilvY
H10682 ilvC
H10683 glpC
H10684 glpB
H10685 glpA
H10686 glpT
H10687
H10688
H10689 hpd
H10690 glpF
H10819 galK
H10820 galT
H10821 galS
H10822 mglB
H10823 mglBA
H10824 mglC
H10825
H10826
H10827
H10828 kch
H10829 sll
H10830 trpR
H10831
H10832 frdD
H10833 frdC
H10834 frdB
H10835 frdA

FIG.6S

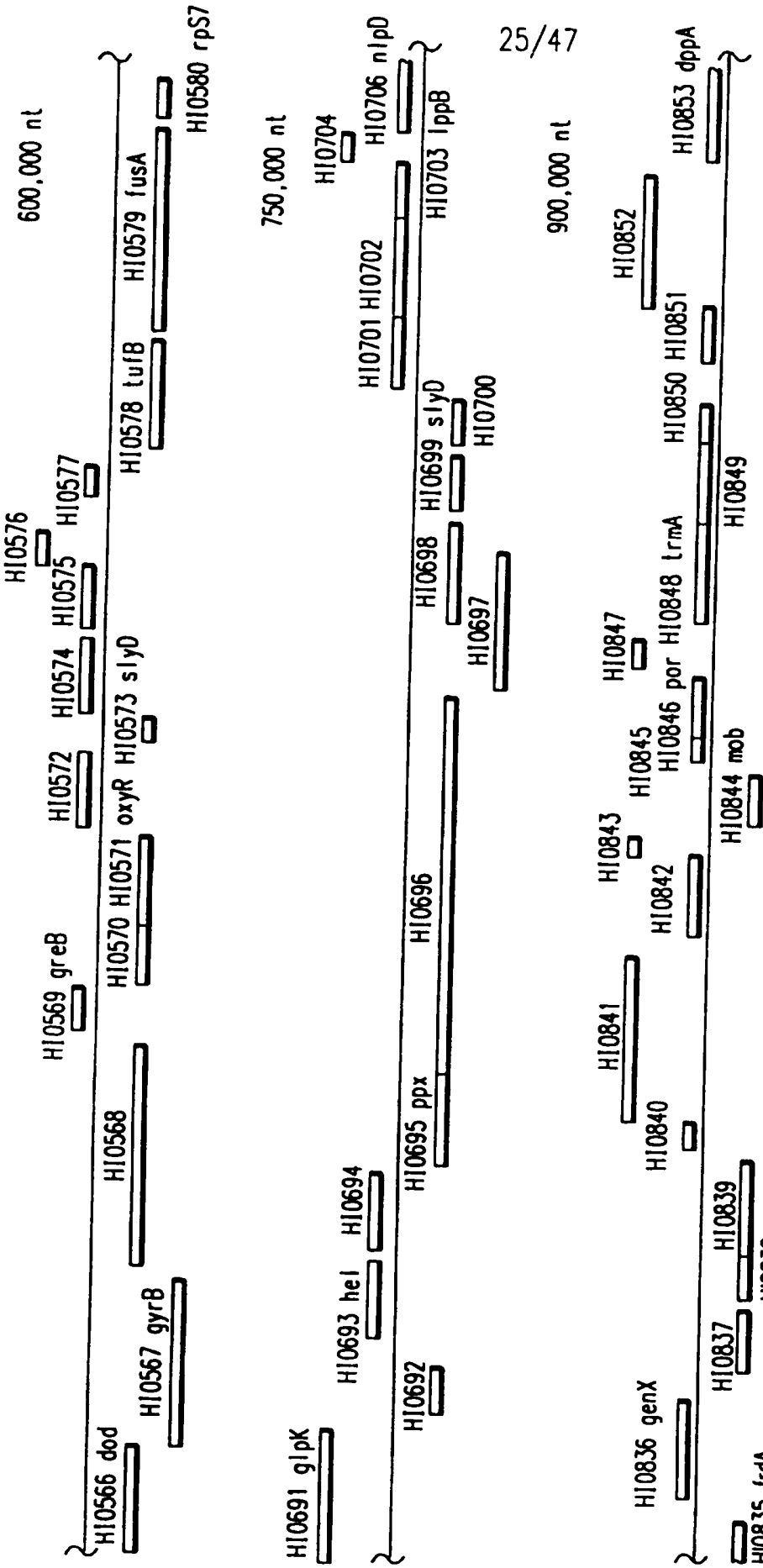

600,000 nt
750,000 nt
900,000 nt
HI0566 dod
HI0567 gyrB
HI0568
HI0569 greB
HI0570
HI0571 oxyR
HI0572
HI0573 slyD
HI0574
HI0575
HI0576
HI0577
HI0578 tufB
HI0579 fusA
HI0580 rpS7
HI0691 glpK
HI0692
HI0693 hel
HI0694
HI0695 ppx
HI0696
HI0697
HI0698
HI0699 slyD
HI0700
HI0701 HI0702
HI0703 lppB
HI0704
HI0706 nlpD
HI0835 frdA
HI0836 genX
HI0837
HI0838
HI0839
HI0840
HI0841
HI0842
HI0843
HI0844 mob
HI0845
HI0846 por
HI0847
HI0848 trmA
HI0849
HI0850
HI0851
HI0852
HI0853 dppA

FIG.6T

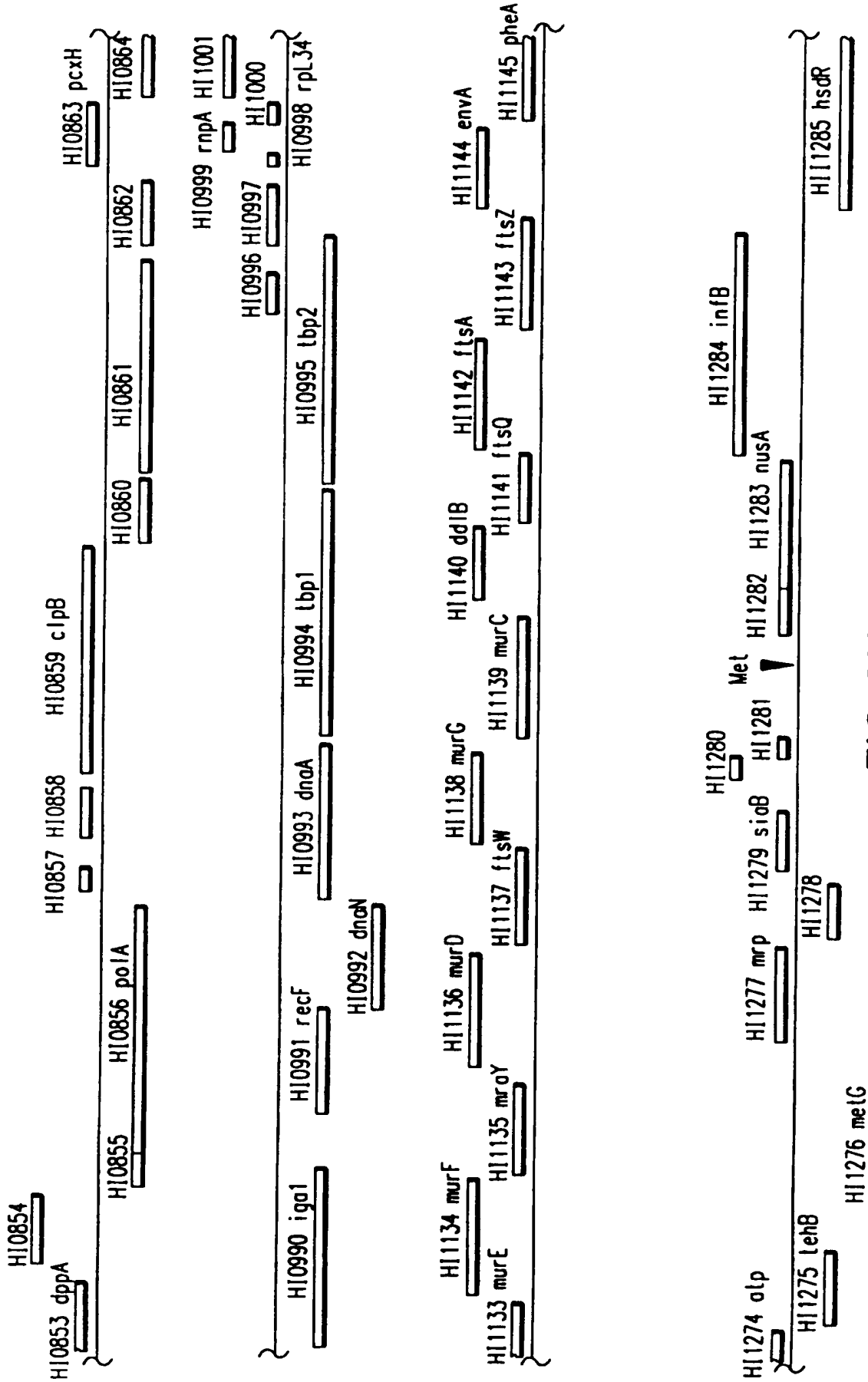

H10853 dppA
H10854
H10855
H10856 polA
H10857
H10858
H10859 clpB
H10860
H10861
H10862
H10863 pcxH
H10864
H10990 igo1
H10991 recF
H10992 dnaN
H10993 dnaA
H10994 tbp1
H10995 tbp2
H10996
H10997
H10998 rplL34
H10999 rnpA
H11000
H11001
H11133 murE
H11134 murF
H11135 mraY
H11136 murD
H11137 ftsW
H11138 murG
H11139 murC
H11140 ddlB
H11141 ftsQ
H11142 ftsA
H11143 ftsZ
H11144 envA
H11145 pheA
H11274 alp
H11275 lehB
H11276 metG
H11277 mrp
H11278
H11279 sioB
H11280
H11281
Met
H11282
H11283 nusA
H11284 infB
H11285 hsdR

FIG.6U

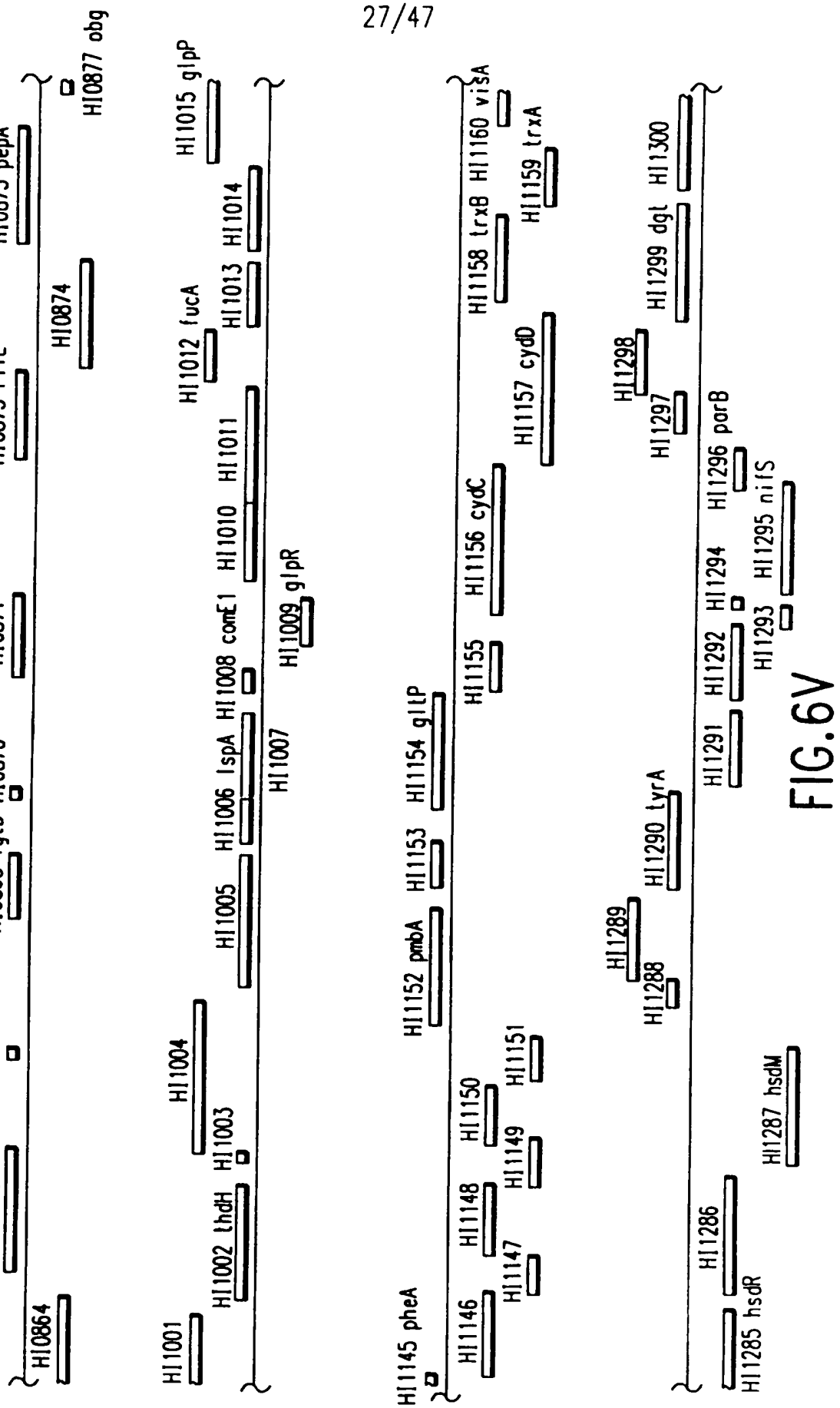

H10876 nok
H10877 obg
H10875 pepA
H10874
H10873 rffE
H10872 rfbP
H10871
H10870
H10869
H10868 lgtD
H10867
H10866
H10865 glnA
H10864
H11015 glpP
H11014
H11013
H11012 fucA
H11011
H11010
H11009 glpR
H11008 comE1
H11007
H11006 lspA
H11005
H11004
H11003
H11002 thdH
H11001
H11160 visA
H11159 trxA
H11158 trxB
H11157 cydD
H11156 cydC
H11155
H11154 glLP
H11153
H11152 pmbA
H11151
H11150
H11149
H11148
H11147
H11146
H11145 pheA
H11300
H11299 dgt
H11298
H11297
H11296 parB
H11295 nifS
H11294
H11293
H11292
H11291
H11290 tyrA
H11289
H11288
H11287 hsdM
H11286
H11285 hsdR

FIG.6V

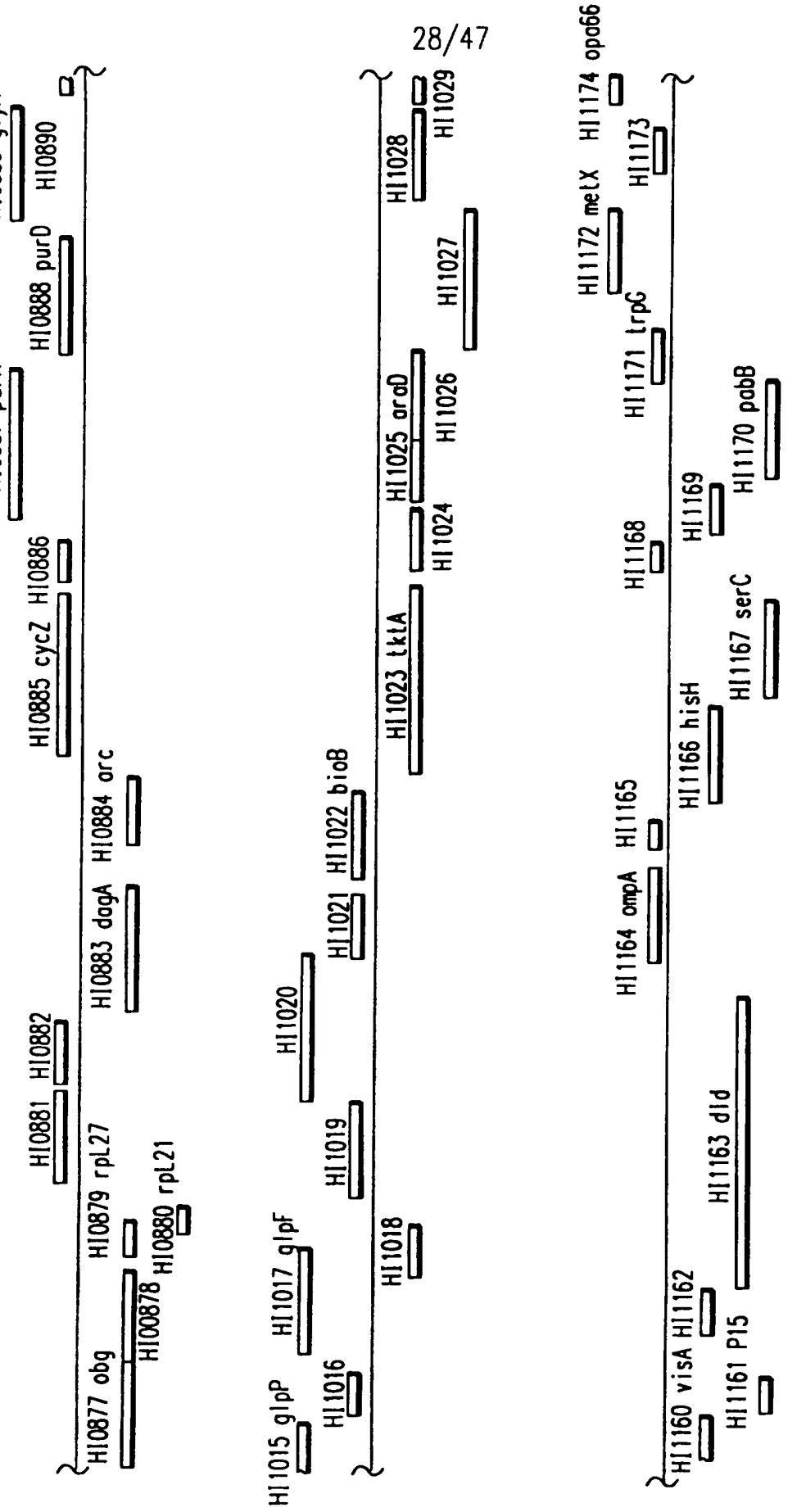

HI0889 glyA
HI0890
HI0888 purD
HI0887 purH
HI0886
HI0885 cycZ
HI0884 orc
HI0883 dagA
HI0882
HI0881
HI0879 rpL27
HI0880 rpL21
HI0878
HI0877 obg
HI1029
HI1028
HI1027
HI1026
HI1025 oraD
HI1024
HI1023 tktA
HI1022 bioB
HI1021
HI1020
HI1019
HI1018
HI1017 glpF
HI1016
HI1015 glpP
HI1174 opa66
HI1173
HI1172 metX
HI1171 trpC
HI1170 pabB
HI1169
HI1168
HI1167 serC
HI1166 hisH
HI1165
HI1164 ompA
HI1163 dld
HI1162
HI1161 P15
HI1160 visA

FIG.6W

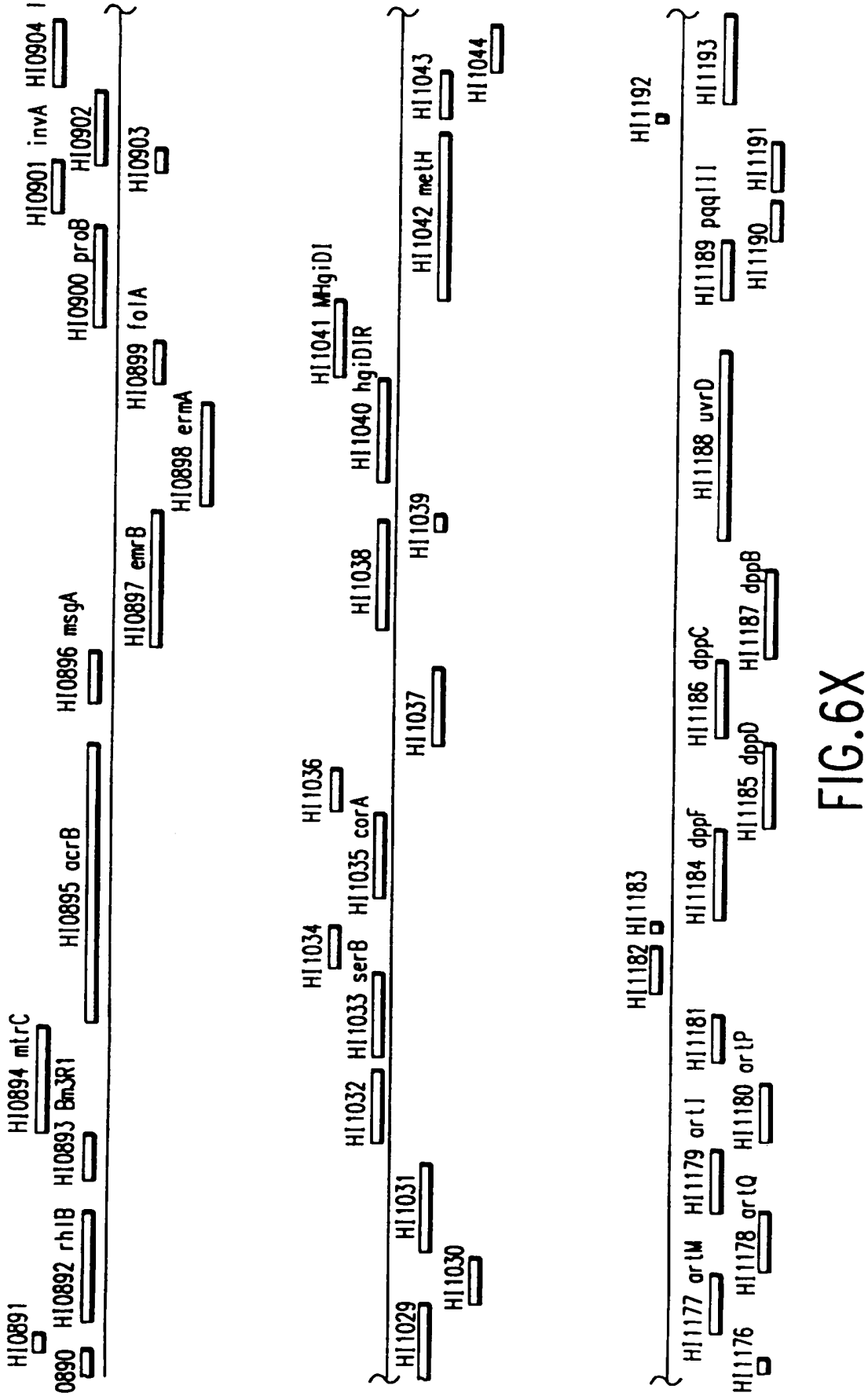

H10891
H10890
H10892 rhlB
H10893 Bm3R1
H10894 mtrC
H10895 acrB
H10896 msgA
H10897 emrB
H10898 ermA
H10899 folA
H10900 proB
H10901 invA
H10902
H10903
H10904 lgt
H11029
H11030
H11031
H11032
H11033 serB
H11034
H11035 corA
H11036
H11037
H11038
H11039
H11040 hgiDIR
H11041 MhgiDI
H11042 metH
H11043
H11044
H11176
H11177 artM
H11178 artQ
H11179 artI
H11180 artP
H11181
H11182
H11183
H11184 dppF
H11185 dppD
H11186 dppC
H11187 dppB
H11188 uvrD
H11189 pqqIII
H11190
H11191
H11192
H11193

FIG.6X

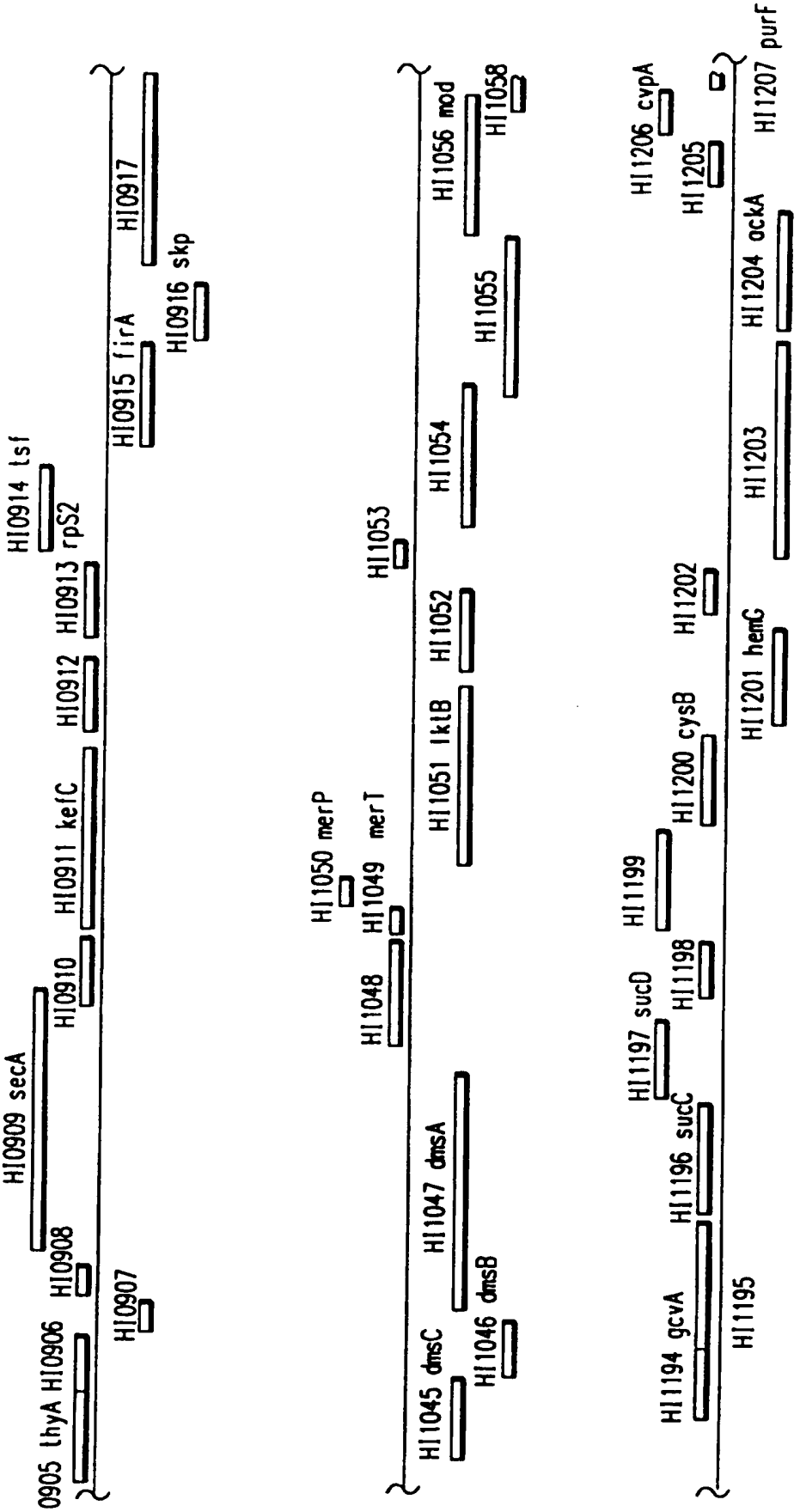

HI0905 thyA
HI0906
HI0907
HI0908
HI0909 secA
HI0910
HI0911 kefC
HI0912
HI0913 rpS2
HI0914 tsf
HI0915 firA
HI0916 skp
HI0917
HI1045 dmsC
HI1046 dmsB
HI1047 dmsA
HI1048
HI1049
HI1050 merP
merT
HI1051 lktB
HI1052
HI1053
HI1054
HI1055
HI1056 mod
HI1058
HI1194 gcvA
HI1195
HI1196 sucC
HI1197 sucD
HI1198
HI1199
HI1200 cysB
HI1201 hemC
HI1202
HI1203
HI1204 ackA
HI1205
HI1206 cypA
HI1207 purF

FIG.6Y

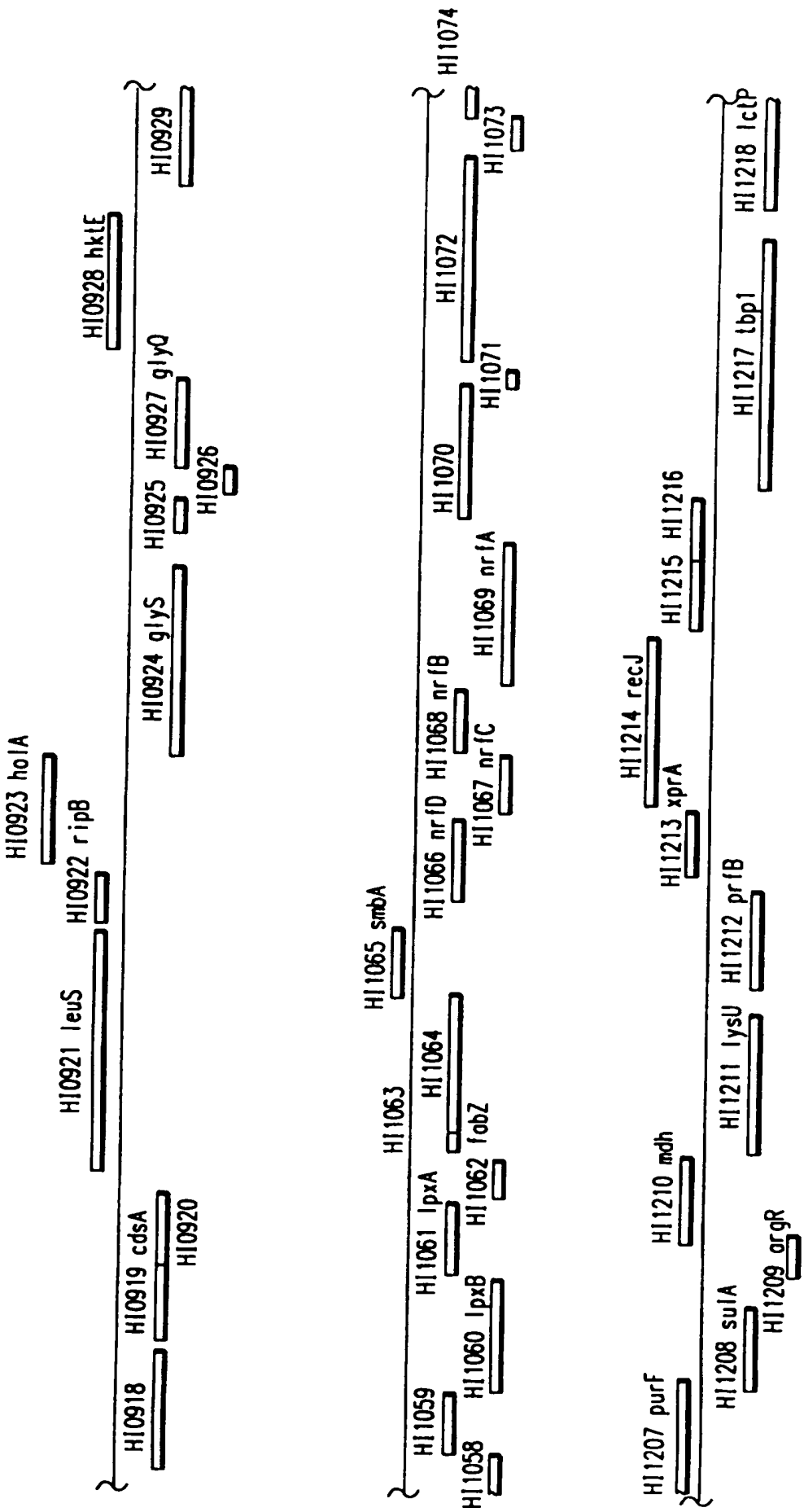

HI0918
HI0919 cdsA
HI0920
HI0921 leuS
HI0922 ripB
HI0923 holA
HI0924 glyS
HI0925
HI0926
HI0927 glyQ
HI0928 hktE
HI0929
HI1058
HI1059
HI1060 lpxB
HI1061 lpxA
HI1062 fobZ
HI1063
HI1064
HI1065 smbA
HI1066 nrfD
HI1067 nrfC
HI1068 nrfB
HI1069 nrfA
HI1070
HI1071
HI1072
HI1073
HI1074
HI1207 purF
HI1208 sulA
HI1209 orgR
HI1210 mdh
HI1211 lysU
HI1212 prfB
HI1213 xprA
HI1214 recJ
HI1215 HI1216
HI1217 tbp1
HI1218 iclP

FIG.6Z


HI0929
HI09030
HI0931
HI0932 eno
HI0933
HI0934
HI0935
HI0936
HI0937 suhB
HI0938
HI0939
HI0940
HI0941
HJ0942 recC
HI0943
HI0944 ribC
HI1074
HI1075 cydB
HI1076 cydA
HI1077 pyrG
HI1078 sfpO
HI1079 glnP
HI1080 glnH
HI1081 murZ
HI1082
HI1083
HI1084
HI1085
HI1086
HI1087 mkl
HI1088 sodA
HI1089
HI1218 lctP
HI1219 cmk
HI1220 rpS1
HI1221 himD
HI1222
HI1223
HI1224 pyrF
HI1225
HI1226 dnaA
HI1227 uraA
HI1228 upp
HI1229 dnaX
HI1230 opt
HI1231 lpdA
HI1232 aceF
HI1233 aceE

FIG.6AA

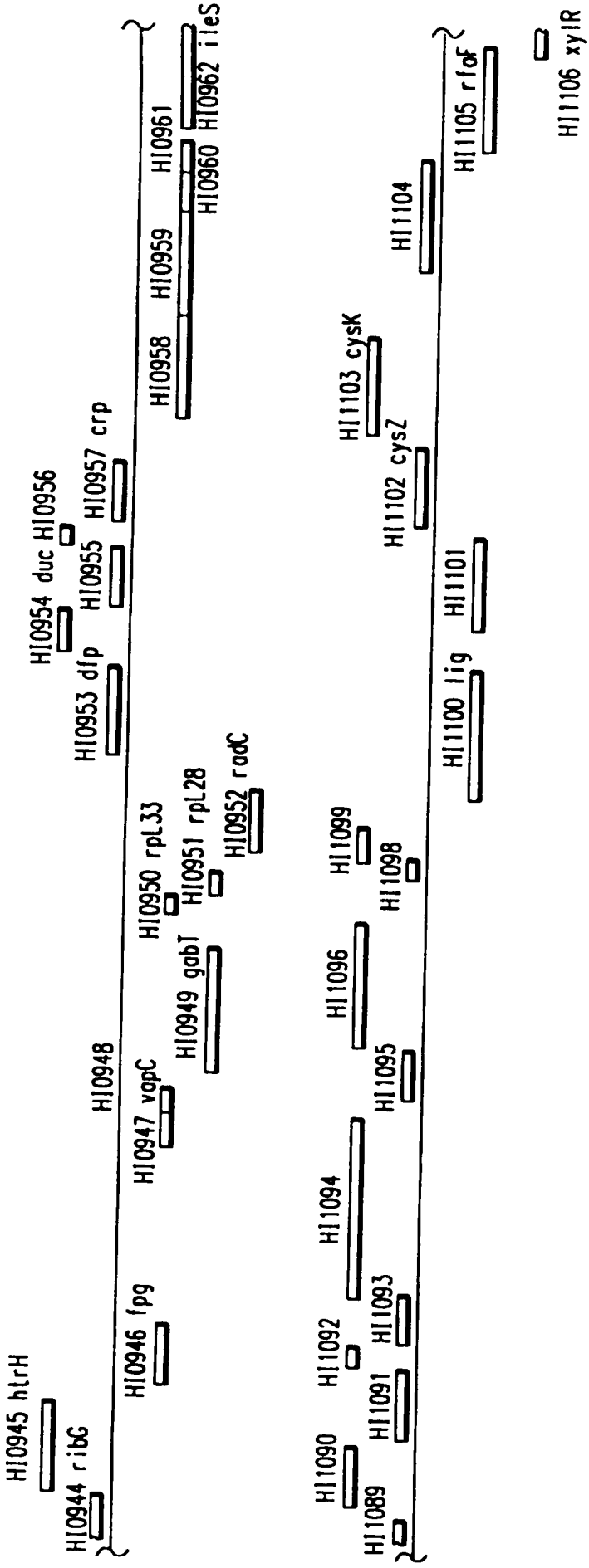

HI0945 htrH
HI0944 ribG
HI0946 fpg
HI0947 vapC
HI0948
HI0949 gabT
HI0950 rpL33
HI0951 rpL28
HI0952 radC
HI0953 dfp
HI0954 duc HI0956
HI0955
HI0957 crp
HI0958
HI0959
HI0960
HI0961
HI0962 ileS
HI1089
HI1090
HI1091
HI1092
HI1093
HI1094
HI1095
HI1096
HI1098
HI1099
HI1100 lig
HI1101
HI1102 cysZ
HI1103 cysK
HI1104
HI1105 rfaF
HI1106 xylR
HI1233 aceE
HI1234
HI1235
HI1236
HI1237 dnaK
HI1238 dnaJ
HI1239 proA
HI1240
HI1241
HI1242 bcr
HI1243
HI1244
HI1245

FIG.6AB

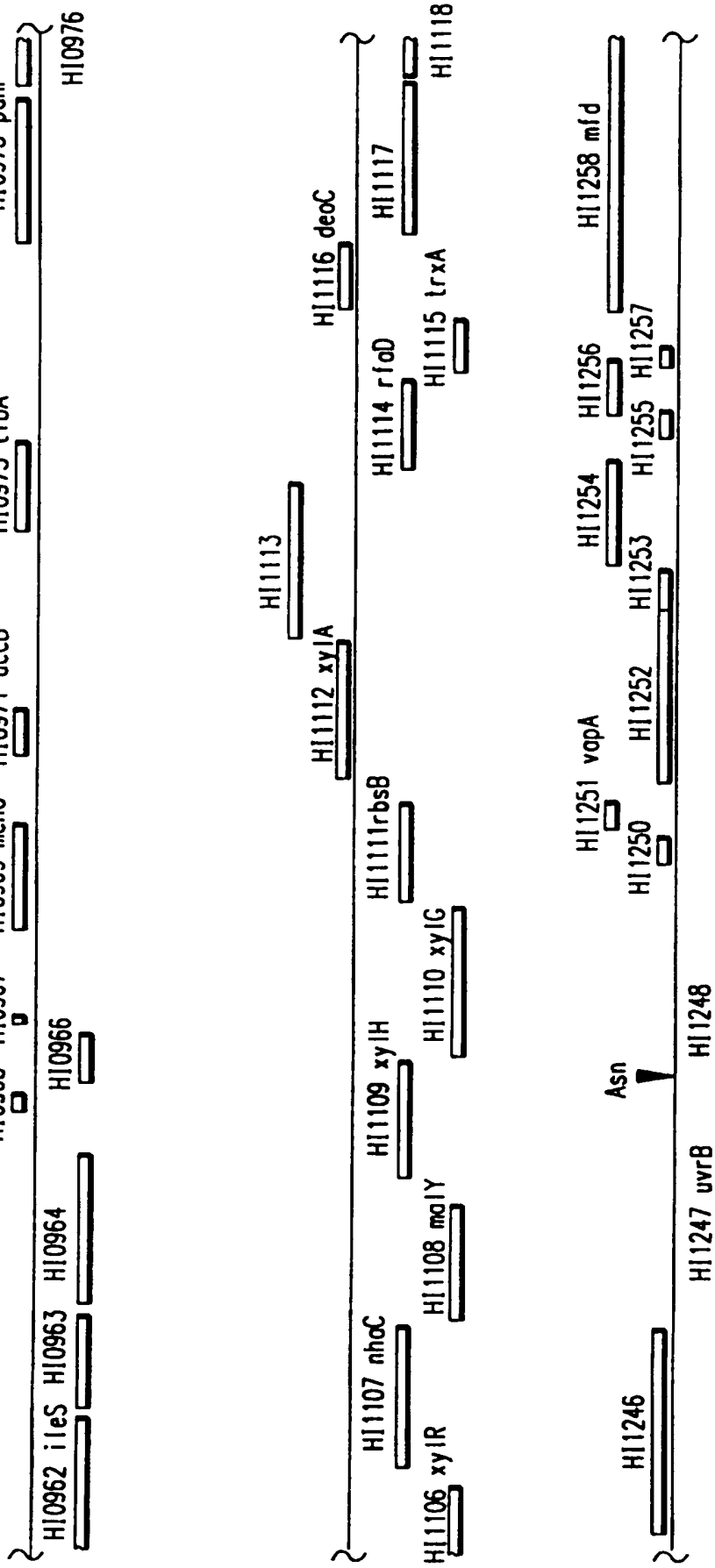

HI0962 ileS
HI0963
HI0964
HI0965
HI0966
HI0967
HI0968 menB
HI0969 menC
HI0970 aroQ
HI0971 accB
HI0972 accC
HI0973 tlbA
HI0974
HI0975 ponF
HI0976
HI1106 xylR
HI1107 nhaC
HI1108 malY
HI1109 xylH
HI1110 xylG
HI1111rbsB
HI1112 xylA
HI1113
HI1114 rfaD
HI1115 trxA
HI1116 deoC
HI1117
HI1118
HI1246
HI1247 uvrB
HI1248
HI1249
Asn
HI1250
HI1251 vapA
HI1252
HI1253
HI1254
HI1255
HI1256
HI1257
HI1258 mfd

FIG.6AC

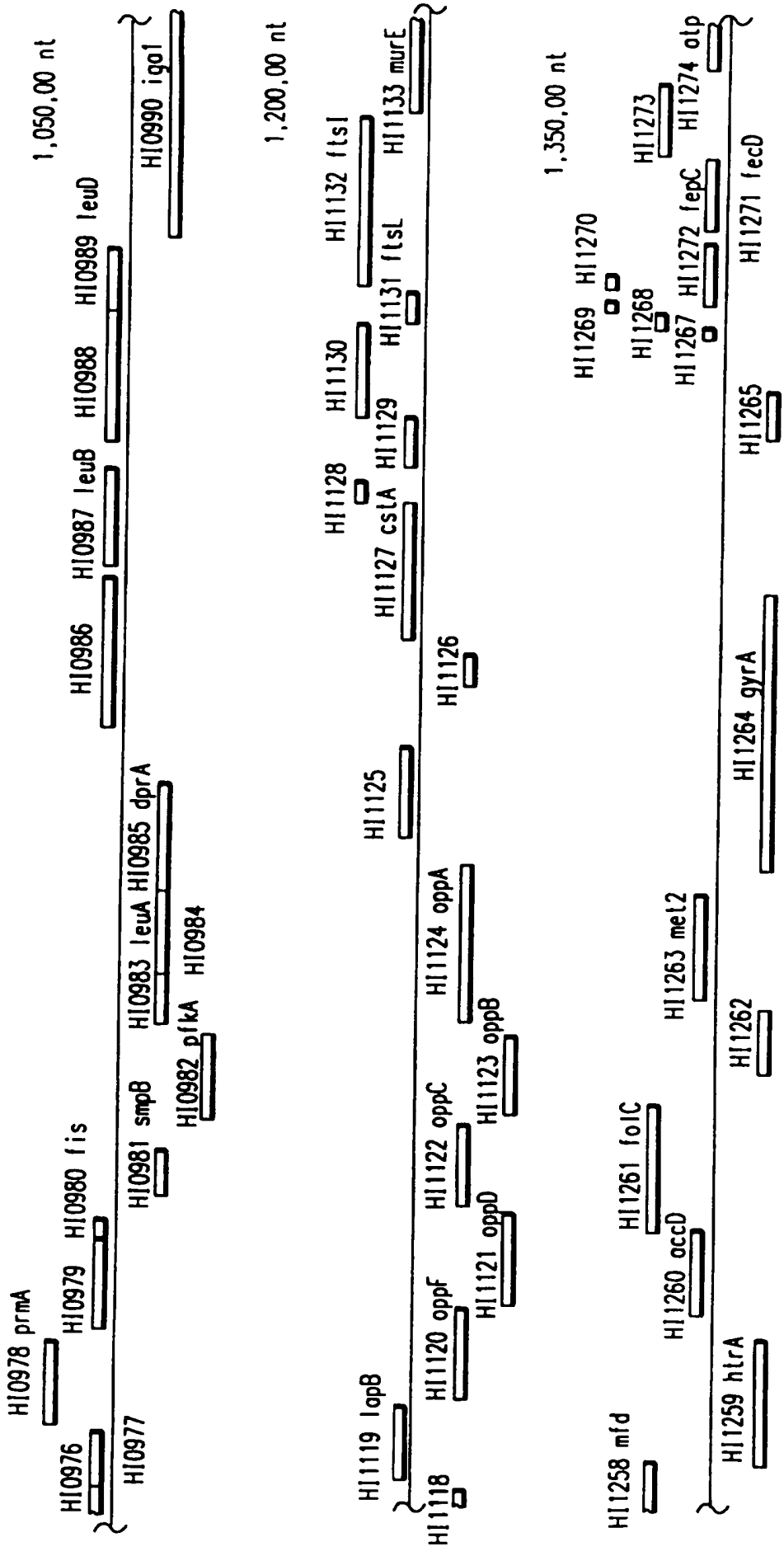

1,050.00 nt
1,200.00 nt
1,350.00 nt
HI0976
HI0977
HI0978 prmA
HI0979
HI0980 fis
HI0981 smpB
HI0982 pfkA
HI0983 leuA
HI0984
HI0985 dprA
HI0986
HI0987 leuB
HI0988
HI0989 leuD
HI0990 igoI
HI1118
HI1119 lopB
HI1120 oppF
HI1121 oppD
HI1122 oppC
HI1123 oppB
HI1124 oppA
HI1125
HI1126
HI1127 cstA
HI1128
HI1129
HI1130
HI1131 ftsL
HI1132 ftsI
HI1133 murE
HI1258 mfd
HI1259 htrA
HI1260 accD
HI1261 folC
HI1262
HI1263 metZ
HI1264 gyrA
HI1265
HI1266
HI1267
HI1268
HI1269
HI1270
HI1271 fecD
HI1272 fepC
HI1273
HI1274 otp

FIG.6AD

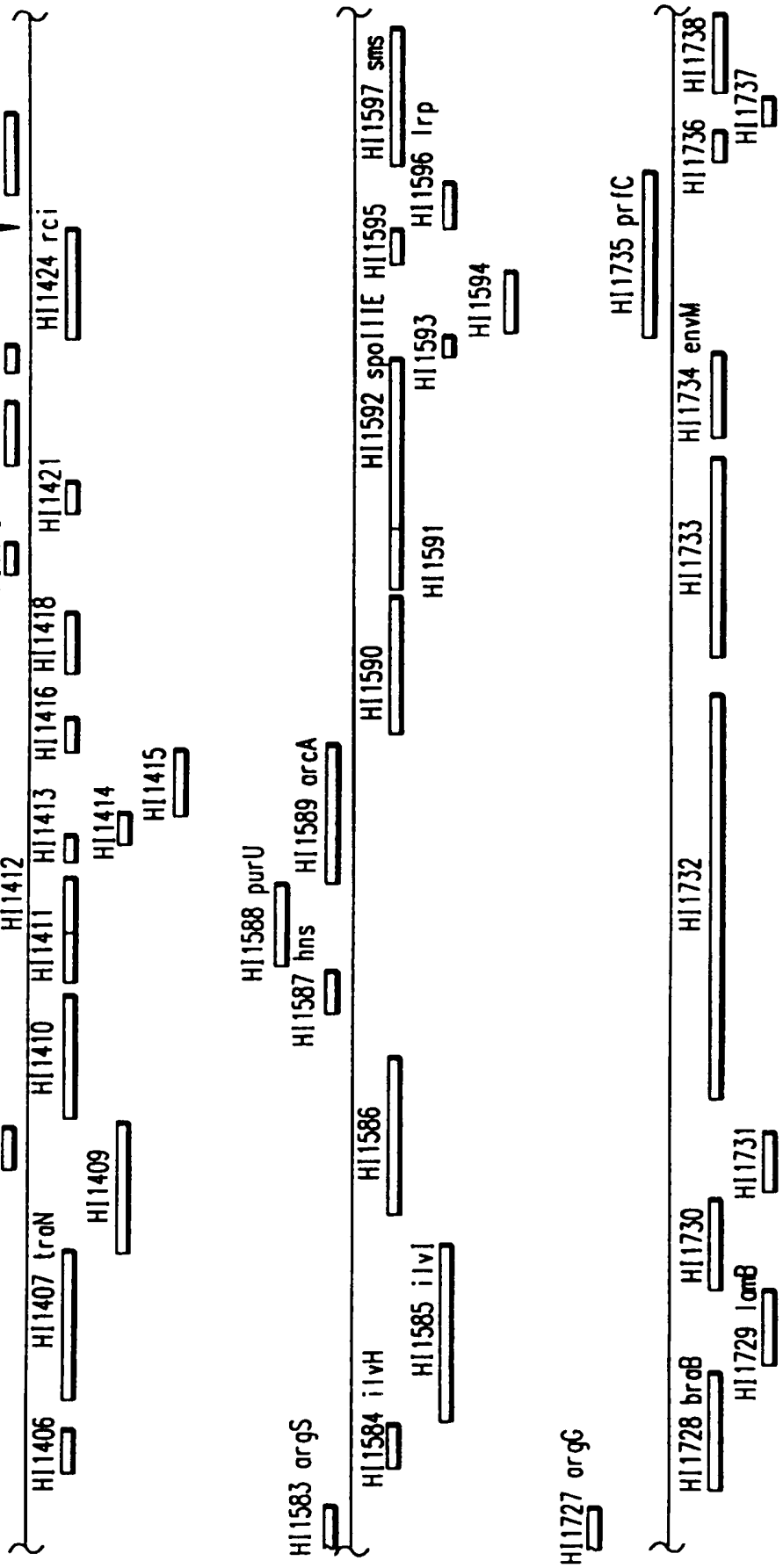

HI1426
fnr
HI1425
Leu
HI1424 rci
HI1423
HI1422
HI1421
HI1420
HI1419
HI1418
HI1416
HI1415
HI1414
HI1413
HI1412
HI1411
HI1410
HI1409
HI1408
HI1407 traN
HI1406
HI1597 sms
HI1596 lrp
HI1595
HI1594
HI1593
HI1592 spoIIIE
HI1591
HI1590
HI1589 arcA
HI1588 purU
HI1587 hns
HI1586
HI1585 ilvI
HI1584 ilvH
HI1583 argS
HI1738
HI1737
HI1736
HI1735 prfC
HI1734 envM
HI1733
HI1732
HI1731
HI1730 lamB
HI1729
HI1728 braB
HI1727 argC

FIG.6AE

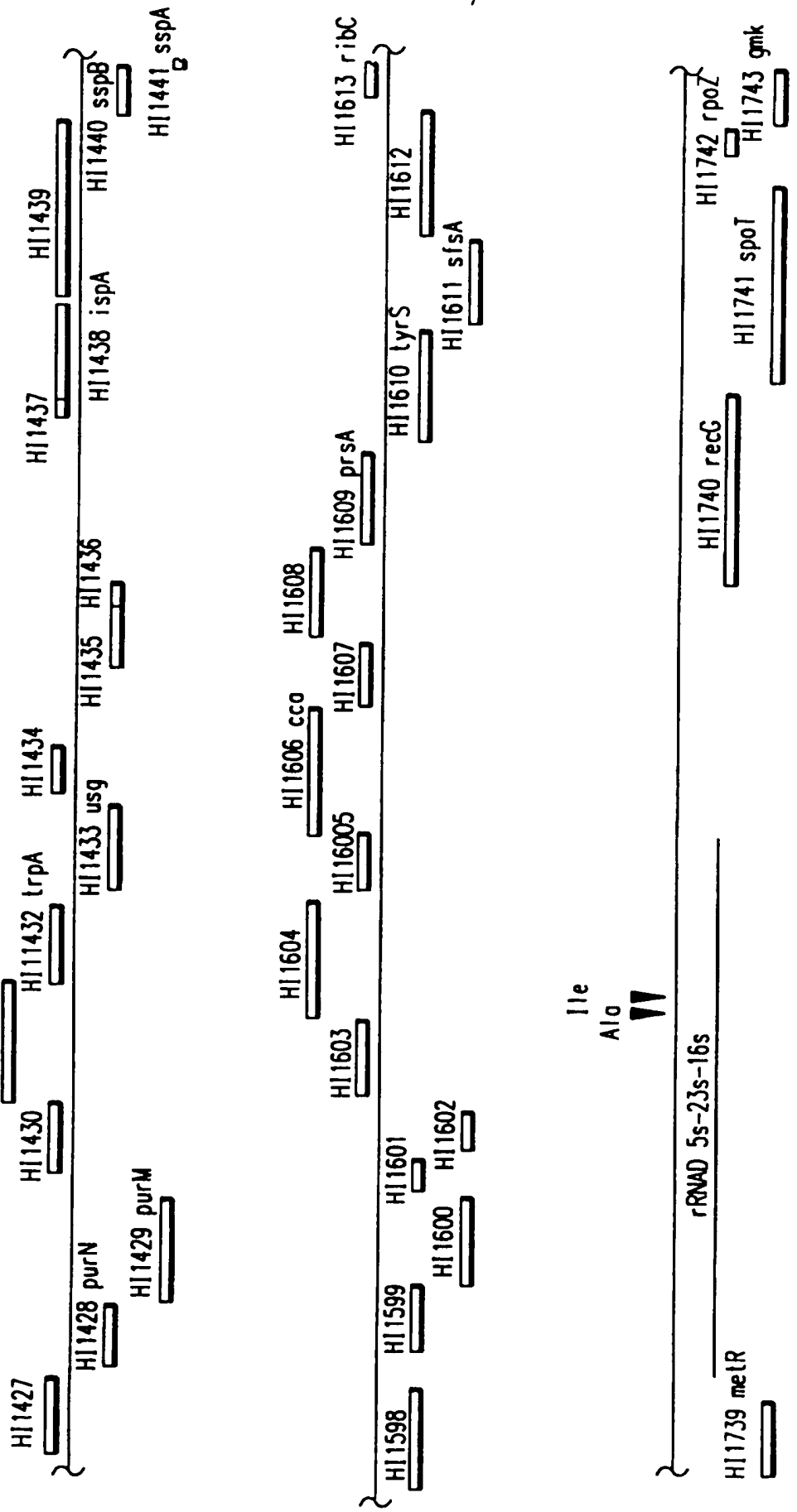

HI1427
HI1428 purN
HI1429 purM
HI1430
HI1431 trpB
HI1432 trpA
HI1433 usg
HI1434
HI1435
HI1436
HI1437
HI1438 ispA
HI1439
HI1440 sspB
HI1441 sspA
HI1598
HI1599
HI1600
HI1601
HI1602
HI1603
HI1604
HI16005
HI1606 cca
HI1607
HI1608
HI1609 prsA
HI1610 tyrS
HI1611 sfsA
HI1612
HI1613 ribC
Ile
Ala
rRNAD 5s-23s-16s
HI1739 melR
HI1740 recG
HI1741 spoT
HI1742 rpoZ
HI1743 gmk

FIG.6AF

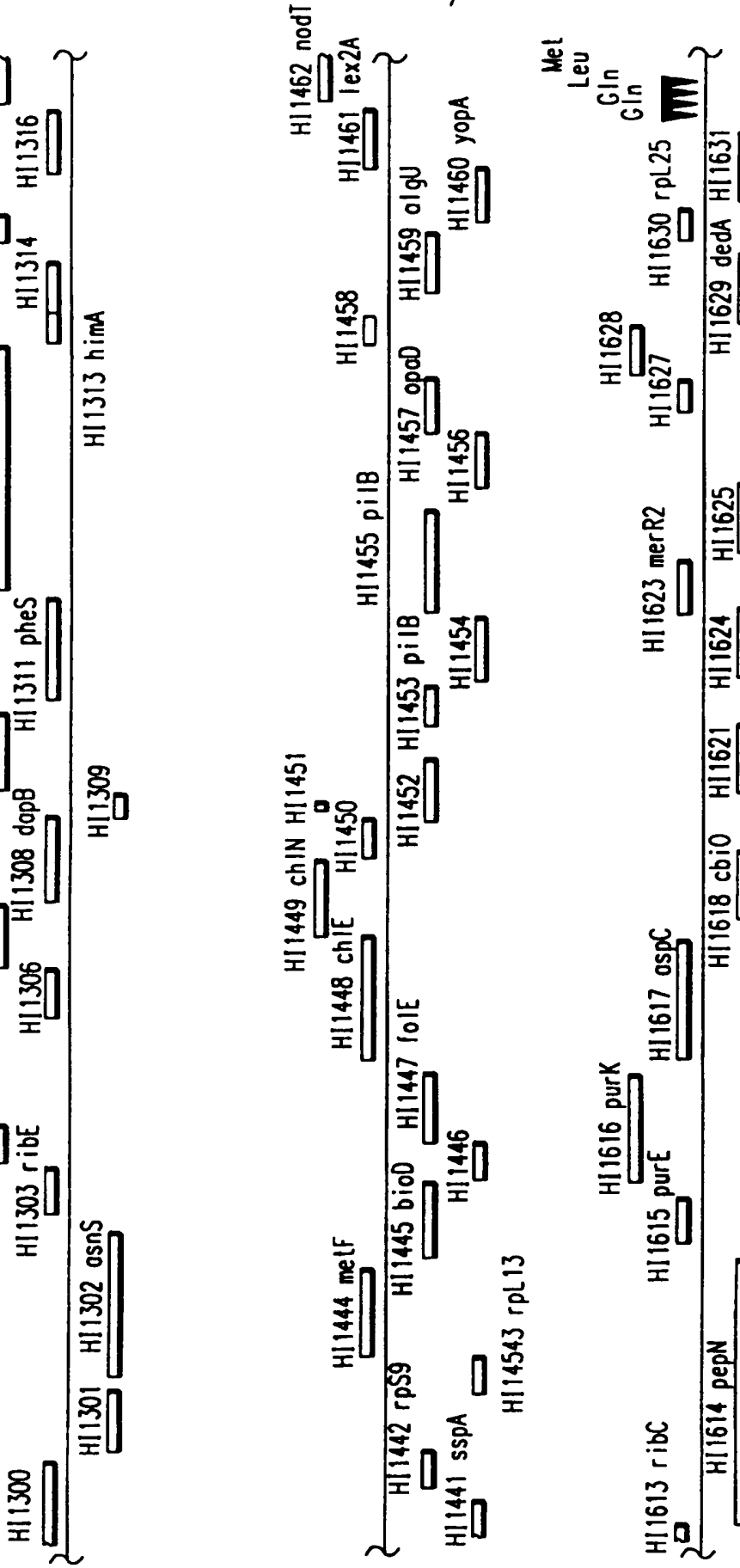

HI1300
HI1301
HI1302 asnS
HI1303 ribE
HI1304 nusB
HI1305 hypE
HI1306
HI1307 mlgA
HI1308 dapB
HI1309
HI1310
HI1311 pheS
HI1312 pheT
HI1313 himA
HI1314
HI1315
HI1316
HI1317
HI1441 sspA
HI1442 rpS9
HI14543 rpL13
HI1444 metF
HI1445 bioD
HI1446
HI1447 folE
HI1448 chlE
HI1449 chlN
HI1450
HI1451
HI1452
HI1453 pilB
HI1454
HI1455 pilB
HI1456
HI1457 opaD
HI1458
HI1459 algU
HI1460 yopA
HI1461 lex2A
HI1462 nodT
HI1613 ribC
HI1614 pepN
HI1615 purE
HI1616 purK
HI1617 aspC
HI1618 cbiO
HI1619
HI1620
HI1621
HI1622
HI1623 merR2
HI1624
HI1625
HI1626
HI1627
HI1628
HI1629 dedA
HI1630 rpL25
HI1631
Met
Leu
Gln
Gln

FIG.6AG

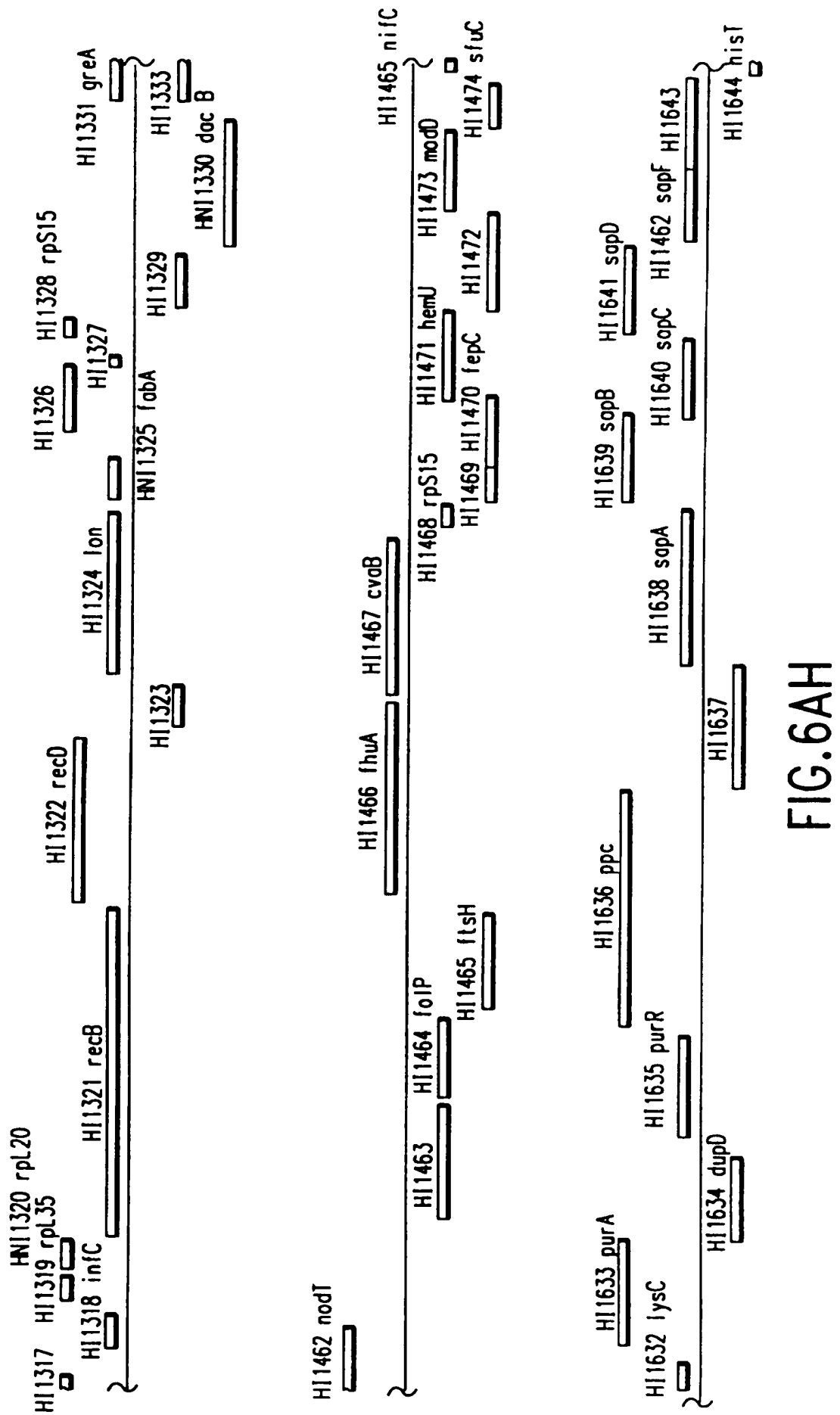

HI1317
HI1319 rpL35
HNI1320 rpL20
HI1318 infC
HI1321 recB
HI1322 recD
HI1323
HI1324 lon
HNI1325 fabA
HI1326
HI1327
HI1328 rpS15
HI1329
HI1330 dac B
HI1331 greA
HI1333
HI1462 nodT
HI1463
HI1464 folP
HI1465 ftsH
HI1466 fhuA
HI1467 cvaB
HI1468 rpS15
HI1469 HI1470 fepC
HI1471 hemJ
HI1472
HI1473 modD
HI1474 sfuC
HI1465 nifC
HI1632 lysC
HI1633 purA
HI1634 dupD
HI1635 purR
HI1636 ppc
HI1637
HI1638 sapA
HI1639 sapB
HI1640 sapC
HI1641 sapD
HI1462 sapF
HI1643
HI1644 hisT

FIG.6AH

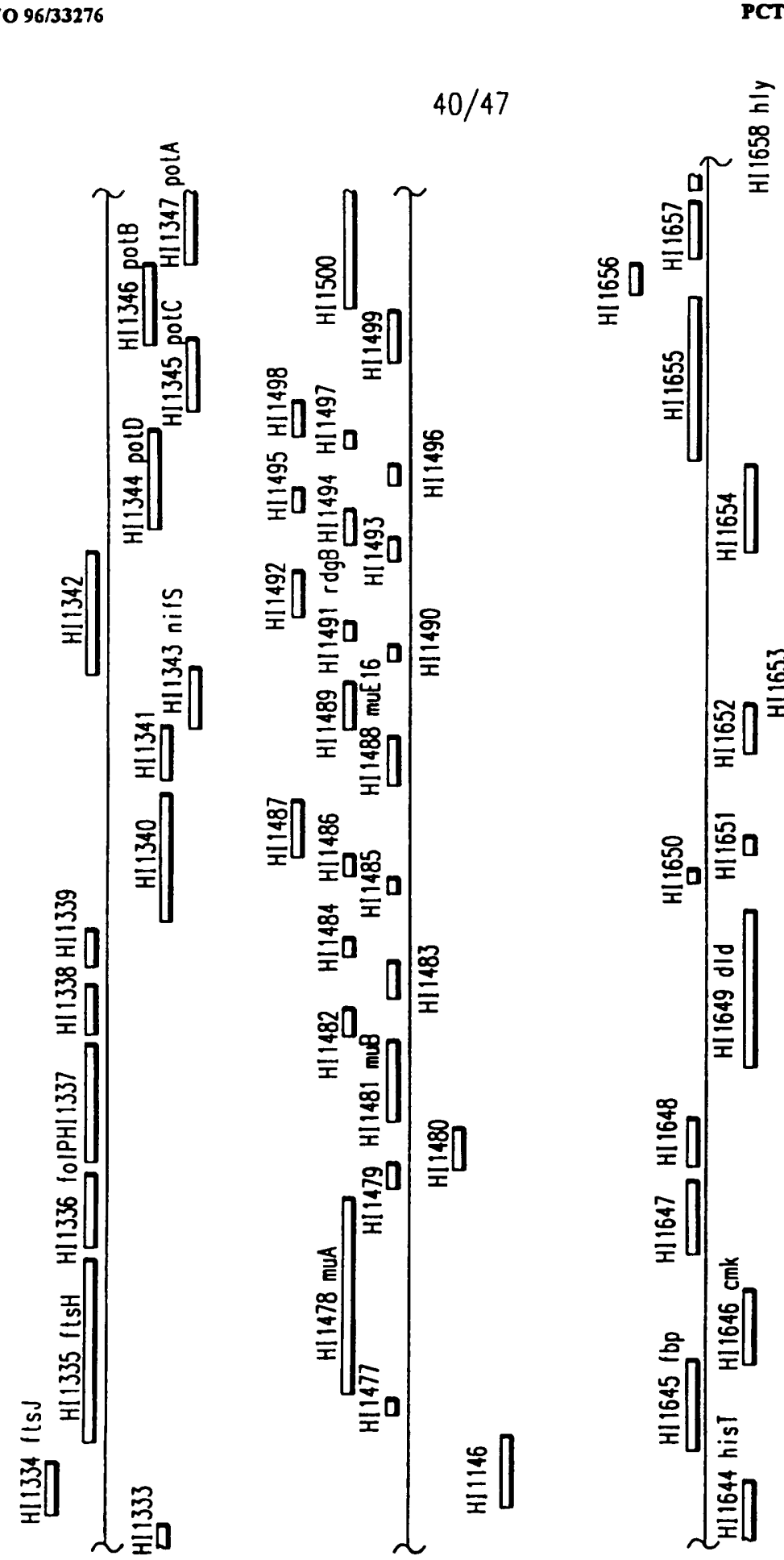

HI1334 ftsJ
HI1335 ftsH
HI1336 folPHI1337
HI1338 HI1339
HI1333
HI1340
HI1341
HI1343 nifS
HI1342
HI1344 polD
HI1345 polC
HI1346 polB
HI1347 polA
HI1478 mutA
HI1477
HI1479
HI1481 mutB
HI1482
HI1484
HI1487
HI1486
HI1485
HI1480
HI1483
HI1146
HI1488 mutE16
HI1489
HI1491 rdgB
HI1492
HI1495
HI1494
HI1493
HI1490
HI1496
HI1497
HI1498
HI1499
HI1500
HI1645 fbp
HI1644 hisT
HI1646 cmk
HI1647
HI1648
HI1649 dld
HI1650
HI1651
HI1652
HI1653
HI1654
HI1655
HI1656
HI1657
HI1658 hly

FIG.6AI

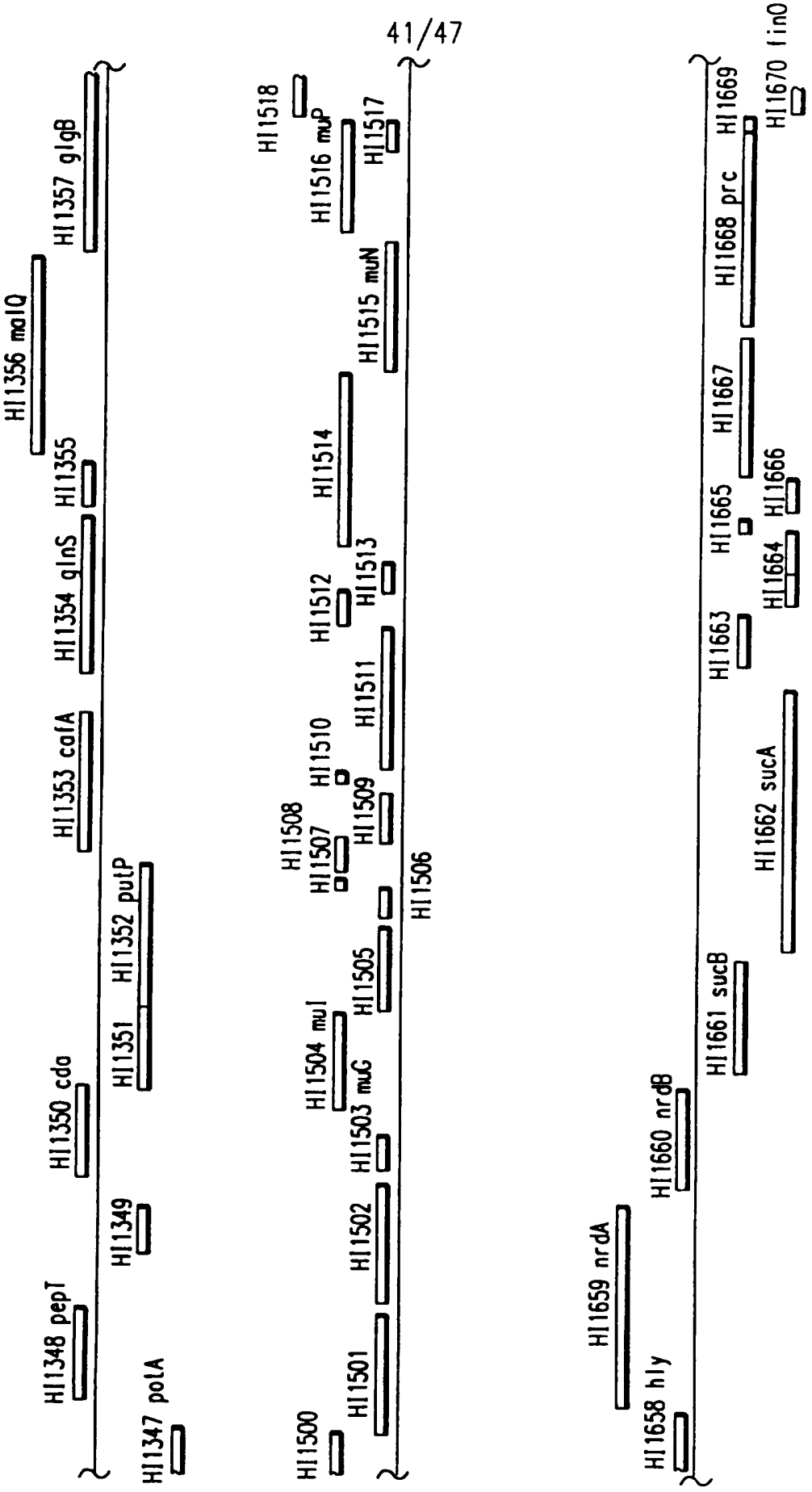

HI1347 potA
HI1348 pepT
HI1349
HI1350 cdo
HI1351
HI1352 putP
HI1353 cafA
HI1354 glnS
HI1355
HI1356 malQ
HI1357 glgB
HI1500
HI1501
HI1502
HI1503 mutG
HI1504 mutI
HI1505
HI1506
HI1507
HI1508
HI1509
HI1510
HI1511
HI1512
HI1513
HI1514
HI1515 mutN
HI1516 mutP
HI1517
HI1518
HI1658 hly
HI1659 nrdA
HI1660 nrdB
HI1661 sucB
HI1662 sucA
HI1663
HI1664
HI1665
HI1666
HI1667
HI1668 prc
HI1669
HI1670 tinO

FIG.6AJ

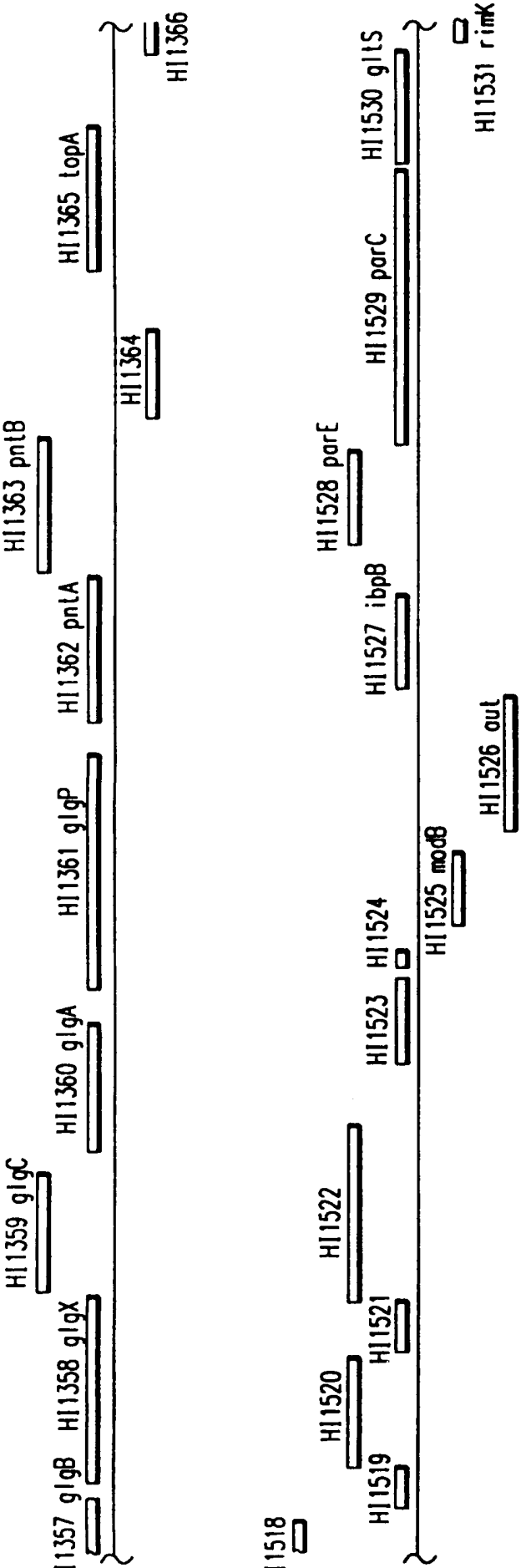

11357 glgB
HI1358 glgX
HI1359 glgC
HI1360 glgA
HI1361 glgP
HI1362 pntA
HI1363 pntB
HI1364
HI1365 topA
HI1366
11518
HI1519
HI1520
HI1521
HI1522
HI1523
HI1524
HI1525 modB
HI1526 aut
HI1527 ibpB
HI1528 parE
HI1529 parC
HI1530 gltS
HI1531 rimK
HI1670 finO
HI1671
HI1672
HI1673 moaE
HI1674 moaD
HI1675 moaC
HI1676 moaA
HI1677
HI1678 kpsF
HI1679
HI1680
HI1681
HI1682 sohB
HI1683
HI1684

FIG.6AK

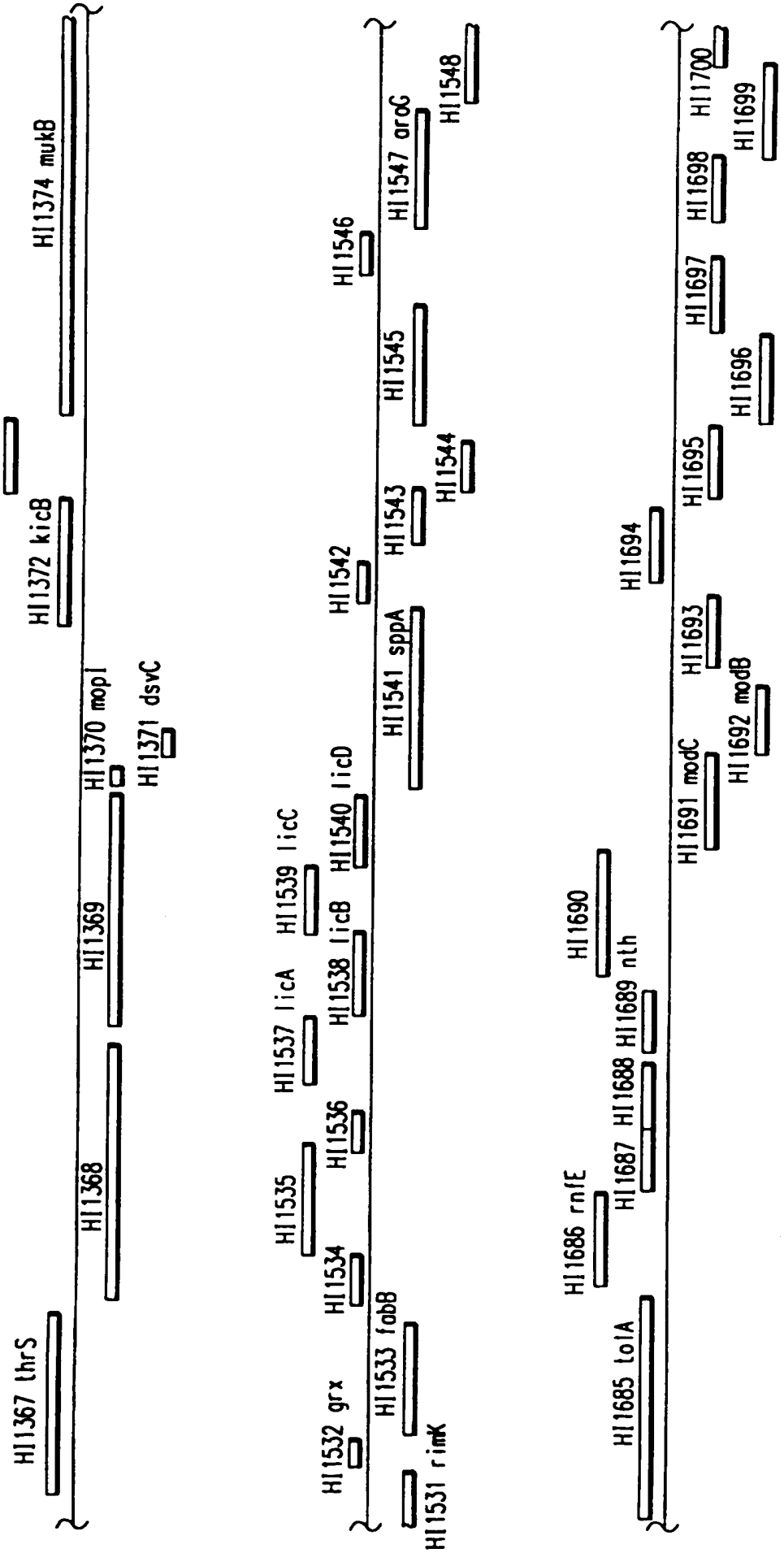

HI1367 thrS
HI1368
HI1369
HI1370 mopI
HI1371 dsvC
HI1372 kicB
HI1373 kicA
HI1374 mukB
HI1531 rimK
HI1532 grx
HI1533 fabB
HI1534
HI1535
HI1536
HI1537 licA
HI1538 licB
HI1539 licC
HI1540 licD
HI1541 sppA
HI1542
HI1543
HI1544
HI1545
HI1546
HI1547 oroC
HI1548
HI1685 tolA
HI1686 rnfE
HI1687
HI1688
HI1689 nth
HI1690
HI1691 modC
HI1692 modB
HI1693
HI1694
HI1695
HI1696
HI1697
HI1698
HI1699
HI1700

FIG.6AL

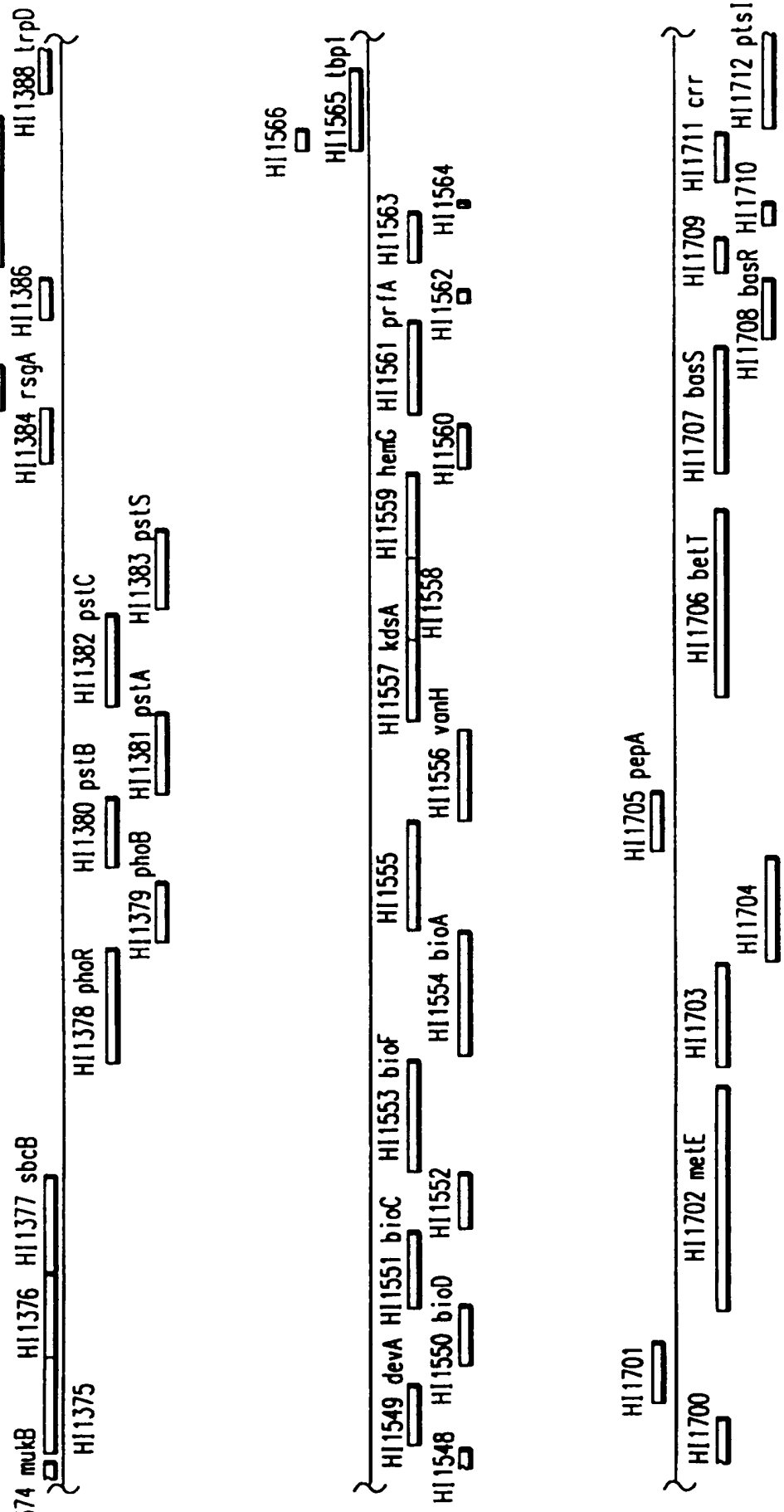

I1374 mukB
HI1375
HI1376
HI1377 sbcB
HI1378 phoR
HI1379 phoB
HI1380 pstB
HI1381 pstA
HI1382 pstC
HI1383 pstS
HI1384 rsgA
HI1385 rsgA
HI1386
HI1387 trpE
HI1388 trpD
HI1548
HI1549 devA
HI1550 bioD
HI1551 bioC
HI1552
HI1553 bioF
HI1554 bioA
HI1555
HI1556 vanH
HI1557 kdsA
HI1558
HI1559 hemC
HI1560
HI1561 prfA
HI1562
HI1563
HI1564
HI1565 tbp1
HI1566
HI1700
HI1701
HI1702 metE
HI1703
HI1704
HI1705 pepA
HI1706 belT
HI1707 basS
HI1708 basR
HI1709
HI1710
HI1711 crr
HI1712 ptsI

FIG.6AM

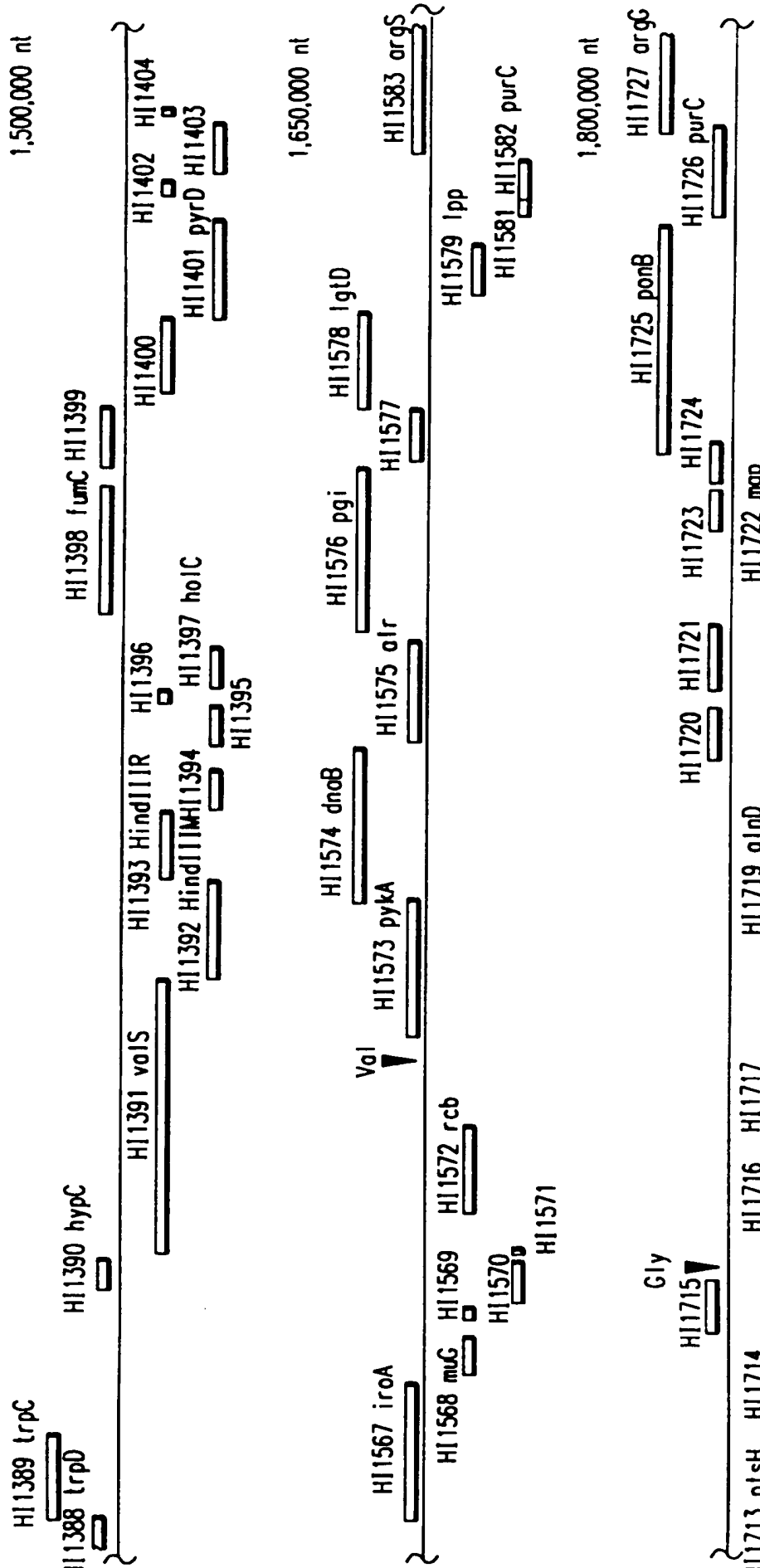

1,500,000 nt
1,650,000 nt
1,800,000 nt
HI1389 trpC
HI1388 trpD
HI1390 hypC
HI1391 volS
HI1392 HindIIIR
HI1393 HindIIIM
HI1394
HI1395
HI1396
HI1397 holC
HI1398 fumC
HI1399
HI1400
HI1401 pyrD
HI1402
HI1403
HI1404
HI1567 iroA
HI1568 mutC
HI1569
HI1570
HI1571
HI1572 rcb
Val
HI1573 pykA
HI1574 dnaB
HI1575 alr
HI1576 pgi
HI1577
HI1578 lgtD
HI1579 lpp
HI1581
HI1582 purC
HI1583 argS
Gly
HI1715
HI1716
HI1717
HI1718
HI1719 glnD
HI1720
HI1721
HI1722 map
HI1723
HI1724
HI1725 ponB
HI1726 purC
HI1727 argC
HI1713 ptsH
HI1714
HI1712 ptsI

FIG.6AN

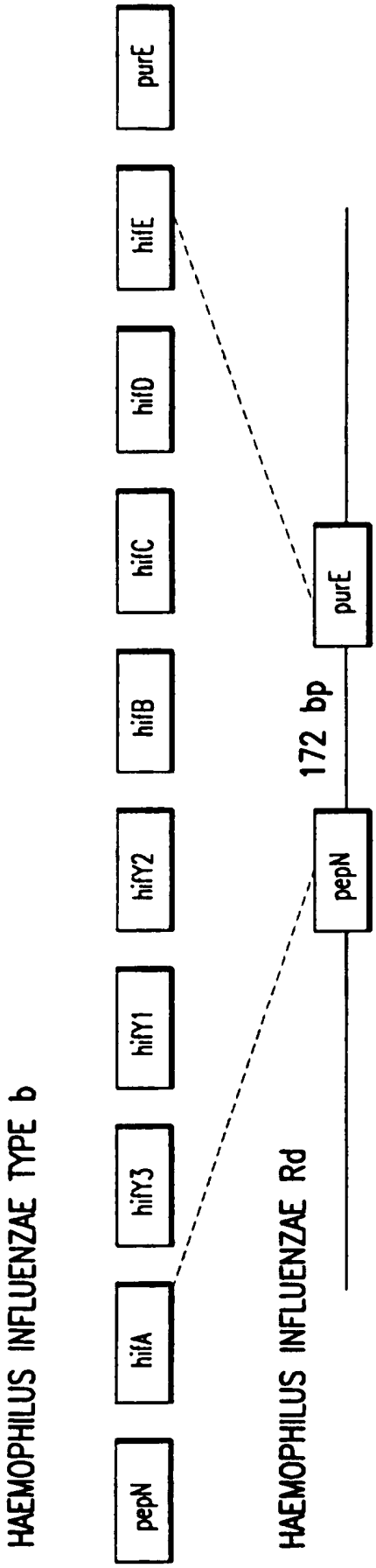

HAEMOPHILUS INFLUENZAE TYPE b
pepN
hifA
hifY3
hifY1
hifY2
hifB
hifC
hifD
hifE
purE
HAEMOPHILUS INFLUENZAE Rd
pepN
172 bp
purE

FIG.7

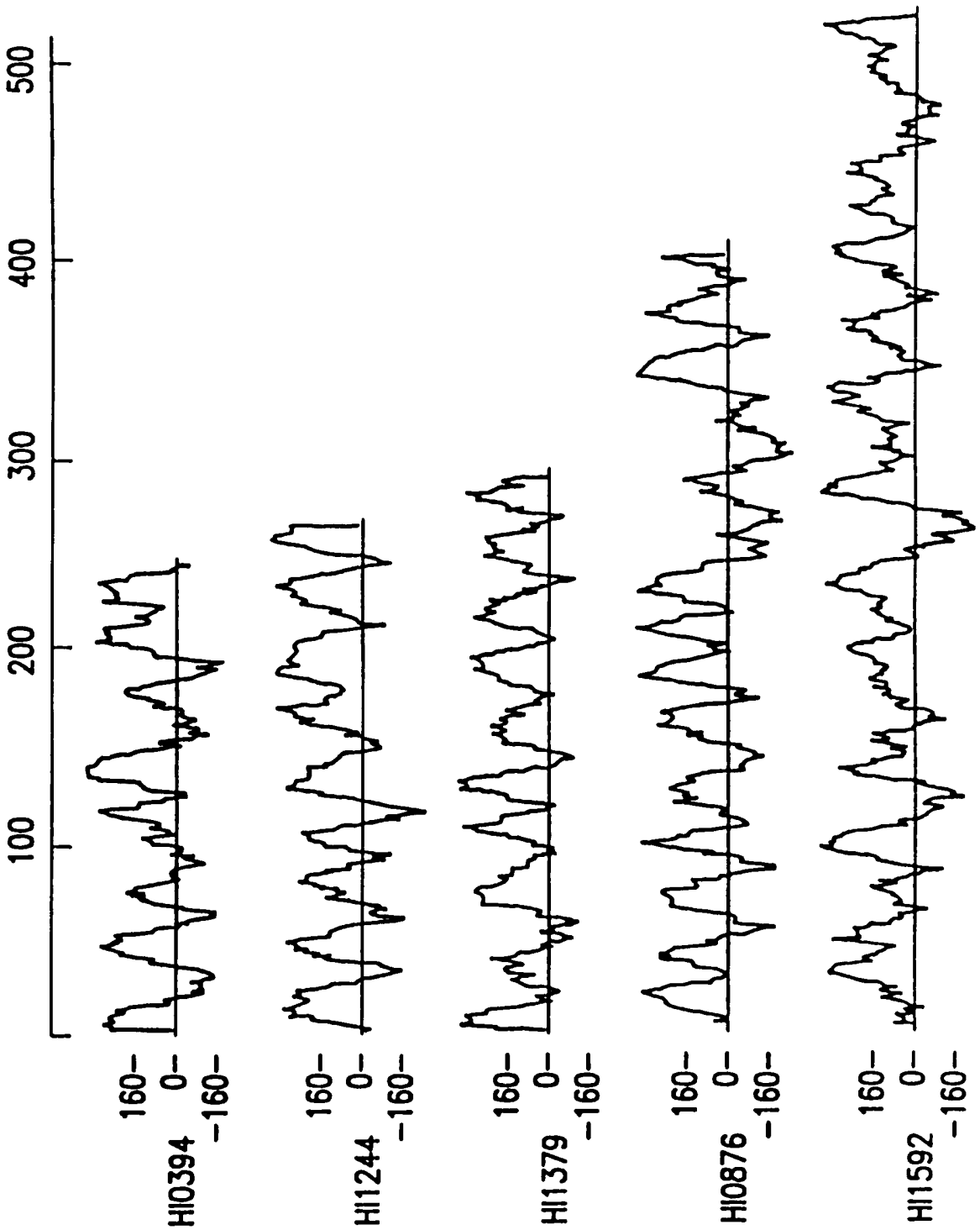

100
200
300
400
500
160
0
-160
HI0394
HI1244
HI1379
HI0876
HI1592

FIG.8

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/05320

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :C12N 15/31, 15/63, 15/00; C12P 21/02
US CL : 536/23.1, 23.2, 23.7; 435/69.1, 320.1, 172.3, 252.3
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 536/23.1, 23.2, 23.7; 435/69.1, 320.1, 172.3, 252.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IGSUITE, FastDB, MPSRCH, nucleotide and amino acid sequence databases searched for elected sequences and open reading frames.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	Nucleotide Database on ENTREZ Release 15.0, published on CD-ROM by National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, USA, WEISER et al. 'Identification and characterization of oapA, a cell-envelope protein of Haemophilus influenzae contributing to phase variation in colony opacity and nasopharyngeal colonization', nucleotide sequence, 15 February 1995, see entire document.	18 --- 8, 9, 11, 12, 15, 16, and 20

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier document published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 10 AUGUST 1996	Date of mailing of the international search report 27 AUG 1996
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer JAMES MARTINELL Telephone No. (703) 308-0196

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/05320

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Nucleotide Database on ENTREZ Release 15.0, published on CD-ROM by the National Center for Biotechnology Information, National Library of Medicine, National Institutes of Health, Bethesda, MD, USA, COPE et al. 'A gene cluster involved in the utilization of both free heme and heme: Hemopexin by Haemophilus influenzae type B', 15 February 1995, see entire document.	15 and 16
X,P	COPE et al. A gene cluster involved in the utilization of both free heme and heme: Hemopexin by *Haemophilus influenzae* type b. Journal of Bacteriology. May 1995, Volume 177, Number 10, pages 2644-2653, see especially page 2648.	15 and 16
X	SANDERS et al. Identification of a locus involved in the utilization of iron by *Haemophilus influenzae*. Infection and Immunity. October 1994, Volume 62, Number 10, pages 4515-4525, see especially pages 4520-4521.	15 and 16
X,P --- Y,P	FLEISCHMANN et al. Whole-genome random sequencing and assembly of *Haemophilus influenzae* Rd. Science. 28 July 1995, Volume 269, pages 496-512, see entire document.	8, 9, 11, 12, 15, 16, and 18 --- 20
Y	WATSON, J. D. et al. "Recombinant DNA in Medicine and Industry'. In: Recombinant DNA, Second Edition. New York: Scientific American Books, W.H. Freeman and Company, 1992, pages 453-470, see entire document.	8, 9, 11, 12, 15, 16, 18, and 20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/05320

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. [X] Claims Nos.: 1-7
because they relate to subject matter not required to be searched by this Authority, namely:

The subject matter of claims 1-7 is directed to non-functional descriptive material on computer readable media and is therefore non-statutory subject matter under PCT Rule 39.1.

2. [X] Claims Nos.: 1, 3-7, 10, 13, 14, and 19
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Please See Extra Sheet.

3. [ ] Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Extra Sheet.

1. [X] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

[ ] The additional search fees were accompanied by the applicant's protest

[X] No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US96/05320

BOX I. OBSERVATIONS WHERE CLAIMS WERE FOUND UNSEARCHABLE
2. Where no meaningful search could be carried out, specifically:

Claims 1 and 3-7 could not be searched in a meaningful manner because the definition of "representative fragment thereof" (page 11 of the description) is such that any sequence found in a database is automatically excluded from being embraced by the claims.

Claims 10, 13, and 14 cannot be searched in a meaningful way because no structural characteristics of the nucleic acids mentioned in the claims are disclosed, hence they cannot be searched.

Claim 19 is directed to antibodies against putative polypeptides. No characteristics of either are disclosed that can be used in a search.

BOX II. OBSERVATIONS WHERE UNITY OF INVENTION WAS LACKING
This ISA found multiple inventions as follows:

This application contains the following inventions or groups of inventions which are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I: Claims 8, 9, 11, 12, 15, 16, 18, and 20 are directed to no fewer than 961 (Table 1(a) minus Table 1(b)) different DNAs, vectors containing the DNAs, organisms transformed with the DNAs, DNAs encoding homologs of the polypeptides encoded by the no fewer than 961 different DNAs, and methods for producing the polypeptides encoded by the no fewer than 961 different DNAs.

Group II: Claim 17 is drawn to no fewer than 961 different polypeptides encoded by a subset of the encoding DNAs mentioned in Group I.

The polypeptide encoding DNAs, vectors containing them, organisms transformed with them, and methods of polypeptide production using them are materially different from and are therefore independent and distinct from the polypeptides of Group II. Additionally none of the products or methods of Groups I is needed to make the polypeptides of Group II.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack Unity of Invention because they are not so linked as to form a single inventive concept under PCT Rule 13.1. In order for more than one species to be examined, the appropriate additional examination fees must be paid. The species are as follows:

Group I contains a separate DNA species for each sequence mentioned. Therefore, there is a minimum of 961 species.

Group II contains at least one polypeptide for each DNA sequence mentioned. Therefore, there is a minimum of 961 species in this Group.

For either Group that applicant elects, a total of 10 (TEN) specified sequences will be searched and no more than 4 (FOUR) specified sequences will be searched for each additional fee paid.

The species listed above do not relate to a single inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: There is no relationship between or among the various nucleotide and amino acid sequences mentioned in the claims.